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Columbia University Bulletin

THE FACULTY OF MEDICINE

College of Physicians & Surgeons

1972–1973

Inquiries

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The Faculty of Medicine of Columbia University

College of Physicians & Surgeons

1972-1973

William J. McGill, Ph.D., LL.D., L.H.D. *President of the University*

Wm. Theodore de Bary, Ph.D., D.Litt. *Executive Vice President for Academic Affairs and Provost of the University*

James S. Young, Ph.D. *Deputy Vice President for Academic Affairs*

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Academic Calendar, 1972-1973

May	**18–19**	Thursday–Friday. Registration, including payment of fees, for third- and fourth-year classes.
June	**1**	**Tuesday. Academic year begins for the third- and fourth-year classes.**
July	**4**	**Tuesday. Independence Day. Holiday.**
Aug	**1**	Tuesday. Last day to apply or reapply for all degrees and certificates to be conferred in October. Students who apply after this date must pay a late fee.
Sept	**7–9**	Thursday–Saturday. Registration, including payment of fees, for first- and second-year classes.
	9–10	Saturday–Sunday. Rosh Hashanah, beginning of the Jewish New Year.
	11	**Monday. Classes begin for first- and second-year classes.**
	18	Monday. Yom Kippur, Jewish Day of Atonement.
	23–24	Saturday–Sunday. First days of Sukkoth, Jewish holiday of Tabernacles.
	30	Saturday, through October 1, Sunday. Concluding days of Sukkoth.
Oct	**25**	Wednesday. Award of October degrees and certificates.
Nov	**7**	Tuesday. Election Day. Holiday.
	13–18	Monday–Saturday. Examination period for first-year students.
	23–25	**Thursday–Saturday. Thanksgiving holidays.**
Dec	**1**	Friday. Last day to apply or reapply for all degrees and certificates to be awarded in February. Students who apply after this date must pay a late fee.
	16	Saturday, through January 2, 1973, Tuesday. Christmas holidays for first- and second-year students only.

Feb	**12–17**	Monday–Saturday. Final examinations for first-year students. Term ends for first-year students.
	14	Wednesday. Award of February degrees and certificates.
	19	Monday. Last day to apply or reapply for May degrees and certificates (see April 9).
	19	Monday. Washington's Birthday. Holiday for second-year students only.
	19–24	Monday–Saturday. Intersession for first-year students only.
	20–22	Tuesday–Thursday. Final examinations for second-year students only. Term ends for second-year students.
	23	Friday, through March 11, Sunday. Intersession for second-year students only.
	26	Monday. Second term begins for first-year students.
April	**9**	Monday. Last day to file late application or renewal of application for May degrees and certificates. Applications received after this date will automatically be applied to next conferral date.
	14–21	Saturday–Sunday. Easter holidays for first-year students only.
	17–18	Tuesday–Wednesday. First days of Pesach, Jewish holiday of Passover.
	20	Friday. Good Friday.
	23–24	Monday–Tuesday. Concluding days of Pesach.
May	**16**	**Wednesday. Conferring of degrees.**
	28	Monday. Memorial Day. Holiday for first- and second-year students only.
June	**15**	Saturday. First year, second semester ends.

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Bard Haven Towers

View of Bard Hall from Riverside Drive

Columbia-Presbyterian Medical Center

Martin Luther King, Jr., Pavilion, Harlem Hospital Center

St. Luke's Hospital Center

Roosevelt Hospital

Mary Imogene Bassett Hospital

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769 and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the

President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917 women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the Department of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue.

MEDICAL LIBRARY

The Medical Library occupies parts of the three lower floors of the College building. It provides current literature (both books and journals) for faculty members and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately three hundred eighteen thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than 4,500 periodicals are received regularly. A professional library staff is available to aid students, faculty members, and research workers in the schools and hospitals of theMedical Center.

The libraries on the Morningside campus, which contain over 4,000,000 volumes, are open to all students. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library, while special and departmental collections are located in various other buildings on the campus.

The Medical Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital enabling the consolidation of all the laboratories of the Institute in one building. These laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INSTITUTE OF HUMAN NUTRITION

The Institute of Nutrition Sciences was established in 1958 in the School of Public Health and Administrative Medicine (renamed the School of Public Health in 1972). The Institute has served as a graduate center to train individuals who would help meet the world-wide need to combat malnutrition. Between 1958 and 1972, 230 degrees were granted, 80 percent of them to foreign students representing forty-six countries. In addition, twenty-five postdoctoral fellows and approximately one hundred special students, mostly from abroad, received extensive training in clinical and public health nutrition.

In 1970 the name of the Institute was changed to the Institute of Human Nutrition, and in 1971 the administration was transferred from the School of Public Health to the Postgraduate Education Division of the Faculty of Medicine with the aim of developing research programs in human nutrition and expanding the teaching role of the Institute to encompass medical students and physicians.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation, later supplemented by one from the Rockefeller Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. Several divisions of the Institute are now operating: (1) reproductive endocrinology, (2) reproductive biochemistry, (3) germ-cell physiology and development, (4) reproductive morphology, (5) family life services, (6) biomathematics and demography, and (7) program development and evaluation.

The office of the Director of the International Institute for the Study of Human Reproduction is on the main floor of the Bard-Haven Apartments, 78 Haven Avenue.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

BARD HAVEN TOWERS

The Bard Haven Towers consist of three thirty-story apartment towers for married students, faculty members, and staff of the College of Physicians and Surgeons. It is located between 170th and 172nd streets on the west side of Haven Avenue overlooking Riverside Drive and the Hudson River.

► AFFILIATED HOSPITALS

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,499 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their thirteenth birhtday, and care for premature babies. The total capacity of the hospital is 165. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a total capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 319 adult private patients.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary and Hospital was located in its own buildings at 420 East 59th Street until December, 1950, when it was moved to the fifth floor of the Presbyterian Hospital.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building and one floor in Harkness Pavilion. There are 189 beds, of which 124 are ward beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of the Presbyterian Hospital.

HARLEM HOSPITAL CENTER

Harlem Hospital Center founded in 1887, is a general hospital of 1,000 beds, serving Central Harlem and environs, responsible for the care of approximately four hundred thousand people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

ST. LUKE'S HOSPITAL

St. Luke's Hospital Center was established in 1850 and has been located on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center which contains 755 beds, including 48 pediatrics beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than ninety thousand visits a year and the various clinics almost one hundred seventy thousand visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

THE ROOSEVELT HOSPITAL

The Roosevelt Hospital was founded in 1864. It comprises 595 beds and 58 bassinets. There are about seventeen thousand admissions and nearly two hundred sixty-two thousand clinic visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments is scheduled for completion in 1972. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century, and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nominations by the Trustees of the University. The hospital is also ac-

tively engaged in community programs through its Departments of Pediatrics, Psychiatry, and Ambulatory Care.

FRANCIS DELAFIELD HOSPITAL

The Francis Delafield Hospital, built and maintained by the City of New York, is a 261-bed limited general hospital emphasizing the treatment and study of cancer. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted here under the terms of an agreement with the City of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of research laboratories, a modern outpatient department, and modern facilities for all methods of study and treatment of cancer.

NEW YORK STATE PSYCHIATRIC INSTITUTE

A 174-bed hospital built and maintained by the State of New York, the Institute provides for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities.

THE MARY IMOGENE BASSETT HOSPITAL

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 183 beds and a full-time staff of specialists. In 1971 the staff saw 84,000 patients on an outpatient basis. A close liaison between the community medical resources and the hospital staff creates a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. Since 1947 the hospital has had a formal affiliation with Columbia, and each year approximately forty students from Columbia elect programs at The Mary Imogene Bassett Hospital.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions. All qualified men and women receive consideration for admission without regard to race, creed, color, or national origin.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly applicants cannot be excused from them. Additional background in advanced mathematics and chemistry, and in embryology, may be useful but is not required. The student may have concentrated on any subject—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Admissions Office of the Faculty of Medicine. Applications are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for whom all transcripts and letters of recommendation have been received, along with MCAT scores if this test has been taken. Applicants will be notified also when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation is the commonest cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Dean's Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of 147 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and has developed a desire for a continuous program of self-education. Preference is given in the selection of students to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education of which science is a part.

ADMISSION TO ADVANCED STANDING

Only a limited number of vancancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any student desiring to transfer from an accredited school of medicine in the United States or Canada to the upper classes of the College should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere but, in the past, the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has been usually unable to evaluate the credentials of such applicants. As a result, the Committee has been able to admit relatively few individuals either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

► REGISTRATION

Before attending classes, each student must register in person during the registration period (see the Academic Calendar). He goes to the Office of the Registrar, files a registration blank giving such information as may be required, and pays his fees. The office, on the third floor of the College building, is normally open from 9 a.m. to 5 p.m. daily except Saturdays and holidays.

All students will be asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

Students are held accountable for absences incurred owing to late enrollment. Any student whose religious duties conflict at any time with academic requirements should apply to his dean or director for an equitable solution.

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

Conduct and behavioral rules are guided by a student committee.

Academic and intellectual integrity are accepted principles in the medical profession. An Honor Code, created and administered by the student body, is the formal acknowledgement of this understanding at the College. Each student is expected to abide by it.

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 3–412) during the change-of-program period. Applications require (*a*) the certi-

fication of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

Elementary language courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

TUITION

For the full course in medicine for one academic year (or equivalent), payable in two installments	$3,000.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$150.00

STUDENT HEALTH AND HOSPITAL FEE

For all students, per academic year (see page 25)	$98.08

APPLICATION FEES AND LATE FEES

For admission	$20.00
For each special examination	10.00
For renewal of application for a degree	1.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

PAYMENT OF FEES

Tuition is payable each term in advance and as part of registration. If this fee is paid after the last day of registration a late fee of $10 will be imposed. Checks for tuition and fees should be drawn to the order of Columbia University.

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If

he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Dean. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

STUDENT HEALTH SERVICE

Daily office hours for sick students are held by the Student Health Service in Room 2005B, Black Building. Members of the Health Service are available to attend sick students who live near the Medical Center. Students who require hospitalization are taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance (unless a student already has hospital insurance) and to pay part of the cost of the student health service. Charges for the hospital insurance premium are subject to revision if rates are changed.

APPLICATION, OR RENEWAL OF APPLICATION, FOR A DEGREE

A candidate for the M.D. or Med.Sc.D. degree must file application for the degree by March 1 of the year in which he expects the degree to be awarded. Announcement of the date and procedure is posted on the bulletin boards each spring. If the degree is not earned as expected, the application may be renewed the following year for a fee of $1. The M.D. and Med.Sc.D. degrees are awarded in June; the Ph.D. degree is awarded whenever the candidate completes the requirements.

► ESTIMATED EXPENSES

The approximate current cost of attending the College for an academic year is as follows:

	Average
Tuition and fees	$3,100
Room in Bard Hall	817
Board	1,200
Books	250
Instruments and microscope	421
Laundry and dry cleaning	300

In addition, each student should budget an average of $600 (minimum $400) for such items as clothing, travel, amusements, and sundries.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt attached illuminator also acceptable); all in carrying case.

Minimum microscope requirements are: monocular microscope with 10x eyepiece; triple nosepiece; 10x, 45x, and 100x oil-immersion objectives; mechanical stage ungraduated; Abbe condenser; attached substage 100 volt lamp; carrying case.

The cost of a suitable reconditioned microscope varies from $300 to $600 depending on the age, make, and model. The standard prices of new microscopes range from $750 to $1,000. A limited number of monocular microscopes are available for rental at approximately $30 a month.

Students are required to secure the usual instruments needed for the various diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► FINANCIAL AID

Financial aid programs are administered without regard to race, creed, color, national origin, or sex.

A *fellowship* is an award for academic excellence accompanied by a stipend to be used by the fellow in the furtherance of his studies or research. Fellows are not required to render any service to the University or the donor; rather, they are to devote their entire time to their own work. There is no restriction on a fellow's publication of his studies or research as a condition of the grant. A fellow may not engage in any remunerative employment while holding a fellowship unless the Dean gives his written consent.

A *scholarship* is an award, based primarily on financial need, of a stipend to be used by the student in the furtherance of his studies or research. The same rules of tenure apply as those governing fellowships except that students may engage in remunerative employment without the consent of the Dean.

Loan funds are provided by Columbia University and by the Health Professions Student Loan Program, through the University, for the assistance of students after enrollment. Application forms for student loans administered by the University are included in the financial aid application. Students who are legal residents of New York State are eligible for loans and for New York State Scholar Incentive Awards through the New York State Higher Education Assistance Corporation. Application forms and instructions are issued by the Dean's Office.

Limited funds are available periodically for loans to medical students in emergencies. These funds, administered by the Dean, come from gifts by classmates and friends in memory of John Adams Mahew, Class of 1955, and from other sources.

Fellowships and scholarships are usually awarded for one academic year at a time. They may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award. Fellows and students, except those holding traveling fellowships, are expected to reside in New York City or its vicinity during the academic year, unless written permission is granted by the Dean to study elsewhere.

Dates of application and further information may be obtained from the Office of the Dean.

For information about available positions for student employment, please consult the Dean's Office. Because of the heavy schedule of the College, it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year, so far as feasible, other financial arrangements should be made.

The spouses of medical students will find many opportunities for employment at the Medical Center; those who are interested should consult the personnel offices of the College and the Hospital.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to

give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster. Open to women graduate students for work in gynecology.

Beekman, Gerard. Awarded annually for advanced work in medicine. Given by the Beekman Family Association.

Du Bois, Abram. Awarded annually. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W. Awarded annually. Open to graduates of recognized Vermont colleges. Reappointment: for a student in medicine, not more than three additional years.

Felsen, Morris. Awarded for investigative work in the field of infectious diarrhea. Bequest of Joseph Felsen.

Gay, Frederick Parker, Memorial. Awarded annually. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Haviland, Theodore. Awarded to physician for research projects or studies in the nature and cause of infectious diseases affecting infants and children.

Herrick, William Worthington. Given in honor of William Worthington Herrick, M.D. Awarded in medicine, preferably to those interested in the medical problems of pregnancy.

Holt, L. Emmett. Awarded annually. Open to a student of the graduating class of any medical school or to a graduate of not more than six years standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Knapp Memorial. Awarded for research in ophthalmology on nomination by the Knapp Foundation Committee.

Koplik Children's Scholarship. Awarded every other year. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Meierhof, Edward. Awarded to a number of properly accredited graduates in medicine to receive instruction in applied anatomy and surgical technique and other surgical training.

Proudfit, Maria McLean. Awarded every four years. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)'92. Next award: 1973–1974.

Romaine, DeWitt C. For medical research in the College. Given by the estate of C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Mrs. Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded to a graduate of the College to do graduate work in obstetrics. Given by Mrs. Ervin Alden Tucker.

Webster, Edward C. Awarded for research in endocrinology or an allied field.

SCHOLARSHIPS

Allen. Awarded annually to men who are unable to pay their own way for medical training. Gift of Mrs. Vivian B. Allen.

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the College. From the Banbury Scholarship Fund.

Bernheim, Alice Ida and Abraham Penner Scholarship Fund (1972). The income for the payment of tuition for a medical student each year.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship to be awarded every four years. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C. Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, one of the Graduate Faculties, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1913. Awarded for medical student scholarships.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1928. Given at their tenth reunion.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship.

Class of 1934. Awarded for medical student scholarships.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1937. Awarded for tuition of medical students.

Class of 1938. Awarded annually to assist a Physicians and Surgeons student.

Class of 1939. Awarded for medical student scholarships.

Class of 1940. Awarded for medical student scholarships.

Class of 1942. Awarded for medical student scholarships.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Detwiler, Samuel R., Memorial (1957). Awarded annually. Given by Dr. Detwiler's friends and colleagues.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Durante, Lawrence John. Awarded for medical student scholarships. Given by members of his class, Physicians and Surgeons 1961, in his memory.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

Frantz, Virginia Kneeland. Awarded annually. Bequest of Dr. Frantz. Established in 1967.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Hanlon, John F. Awarded annually. Given by members of the Class of 1951, in memory of their classmate, John F. Hanlon.

Harsen, Jacob (1859). Five; awarded annually. Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Hirschl, Ira T. Scholarships (1972). From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

Huber, Francis. Awarded annually. Open to a graduate of any institution other than Columbia University, the College of the City of New York, Bernard College, and Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of the College of the City of New York. Given by Dr. Francis Huber in memory of Dr. Abraham Jacobi.

Jeal, Edward R. Awarded to deserving students studying under the Faculty of Medicine.

Lieb, Charles Christian. Awarded with preference given to an American, a worthy student, interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

Li Ming. Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

Loeb, Robert F., Educational Gift (1961). For the education of children of full-time staff members.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

Manley, Herbert D. Awarded to assist worthy students in the College. Given as bequest by the late Dr. Herbert D. Manley.

McCullough, Elizabeth Hall. Awarded to one or more worthy medical students. Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullcugh, an alumna of Physicians and Surgeons.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Maze, M. Montgomery (1971). From the estate of M. Montgomery Maze, Pearl River, Town of Orangetown, County of Rockland and State of New York. Part of this Fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School, Pearl River, New York.

Mead, Mabel C. Awarded to women students of Chinese ancestry, preferably those desiring to study medicine.

Moritz, Samuel J., Memorial. Awarded to medical students in the College. Gift of the executors of the estate of Samuel J. Moritz.

P&S Scholarship Aid and Loan Fund (1971). Established by the wives of the members of the Faculty of Medicine. Awarded to needy students of medicine.

Pfeiffer, Rudolph and Mary E. Awarded to assist one or more deserving and needy students of medicine. Given by Mrs. Mary E. Pfeiffer.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

Rhodebeck, Richard. Awarded to American-born medical students who are in need of financial assistance. Four full scholarships annually. Given in memory of her husband by Mrs. Richard Rhodebeck.

Rudin, Louis & Rachel. Established in 1970 by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the College.

Sagamore. Awarded to needy students enrolled in the College to earn the degree of Doctor of Medicine.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Severinghaus, Aura E. (1961). Established by The Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Strumdorf, Arnold. Awarded to one or more worthy students in their third and fourth years of medical school. Bequest of Miriam Strumdorf.

Vaughan, Harold S. Awarded to students of high character and scholastic ability. Bequest of Dr. Harold Vaughan, Class of 1904.

Vicale, Andrea, Memorial. Awarded to provide tuition and other financial assistance for deserving students in the College of Physicians and Surgeons, Established in memory of his father by Dr. Carmine T. Vicale.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

Zohrab, Clara and Krikor. Awarded annually to students who meet high academic standards and qualify for financial aid, with preference given to students of Armenian extraction.

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year.

Cock, Thomas F., M.D., Prize. Awarded to the student in the College who submits the best thesis on puerperal fever. Given by bequest of Augustus C. Chapin.

Gay, Frederick Parker, Memorial Award (1948). Awarded to a student doing outstanding work in microbiology who is chosen by the chairman of the Department of Microbiology and the Dean of the Faculty of Medicine. Given by Mrs. Frederick Parker Gay, in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College who, in the opinion of the Faculty, has ranked highest in efficiency and ability. Given by bequest of Matilda S. J. Wisner.

Meierhof, Dr. Harold Lee, Prize. Awarded by the Professor of Pathology to the student who, in his opinion, has done the best work in the field for the current year. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Sciarra, Helen M., Prize. Awarded to the fourth-year student who has done the best work in the third-year neurology elective.

Smith, Joseph Mather, Prize. Awarded to the graduate of the College whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious.

Stevens Triennial Prize. Awarded triennially to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

Urology Prize. Awarded to the undergraduate student who submits the best essay on a urological subject during the school year.

Watson, Dr. William Perry, Foundation in Pediatrics Prize (1921). Awarded to a member of the graduating class who has been in attendance for at least two years and who has shown the most efficient work in the study of the diseases of infants and children during the regular course at the College.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential of exemplifying the humanitarian spirit in the art and practice of medicine as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

► HOUSING

The current average room rate at Bard Hall is $720 to $760 for the academic year of thirty-eight to forty weeks. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan; the present rate is $675 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

A limited number of apartments for married students is available at Bard Haven. For information, please contact Miss McCarthy at 100 Haven Avenue, New York, N. Y. 10032.

► STUDENT AND ALUMNI ACTIVITIES

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club is now in its seventy-seventh year. During its long history it has concerned itself with the extracurricular activities of the medical students. It has enriched student life at P&S with its broad program of social, athletic, and cultural activities. The program is carried out by more than twenty student committees.

A faculty board of advisers assists the students in the operation and support of the club program. Every matriculated student in the College of Physicians and Surgeons is automatically a member and is invited to participate in the pursuit of his choice.

Among the activities sponsored by the P&S Club are an orientation program for new students, athletic contests, concerts, choir and vesper services, talks by guest lecturers, home visits with members of the faculty, and student-faculty visits.

In recent years, the Club has also sponsored conferences on such subjects as medicine and religion, and medicine and law, as well as on medical service appointments here and abroad.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

After graduation, all students who are in good professional standing may become members of the Alumni Association of the College of Physicians and Surgeons by notifying the secretary, Dr. A. Thomas Marubbio, c/o Alumni Association Office, 630 West 168th Street, New York, N.Y. 10032, that they wish to join.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses with frequent correlation clinics intended as a vehicle by which basic science material may be related to medical problems. Following the summer vacation, basic science courses are continued for one semester of the second year with the addition of interdepartmental courses in abnormal human biology and an introduction to the evaluation of patients and their problems.

The major clinical year is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary education aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms involved and the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final semesters, with the inclusion of some vacation periods, are devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

► RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year.

► MEDICAL SCIENTIST TRAINING PROGRAM

Admission to this program is open to a limited number of students concurrently with acceptance to the medical school or following the completion of their early years of study. This program is designed for those interested in an eventual career in academic medicine, teaching, and research. The curriculum includes all the essential courses leading to the M.D. degree, modified to special needs, as well as special courses and seminars in basic and clinical sciences. Usually after the basic science period, each student is expected to spend two years in study and research in his chosen field. Special charges are applicable. Faculty advisers are assigned to the students. A program of financial support is provided. Inquiries about this program should be sent to Dr. Wilbur H. Sawyer.

► GRADES AND PROMOTION

Students are evaluated in terms of comments regarding their performance and professional attitudes. Official records indicate whether they have passed with honors, passed, or failed. Students are not ranked within their class.

A student may be advanced to the next academic year of the medical course or be allowed to repeat a year only upon the recommendation of the faculty members under which he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

► KEY TO COURSE NUMBERS

Medical Center courses: The suffixes F, S, and T refer to the initial three semesters.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

► SUMMARY OF CURRICULUM*

FIRST-YEAR CLASS, 1972

SEPTEMBER 11, 1972, to FEBRUARY 17, 1973. First semester basic science courses and correlation clinics.

FEBRUARY 26, 1973, to JUNE 15, 1973. Second semester basic science courses and correlation clinics.

JUNE 15, 1973, to SEPTEMBER 12, 1973. Vacation.

*The curriculum is under study for revision by the Curriculum Committee.

SECOND THROUGH FOURTH YEARS

SEPTEMBER, 1973, TO FEBRUARY, 1974. Third semester, introductory clinical and basic science courses.

MARCH, 1974, through FEBRUARY, 1975. Clinical clerkships.

MARCH, 1975, through MAY, 1976. Electives.

► BASIC SCIENCE AND INTRODUCTORY CLINICAL COURSES (THREE SEMESTERS)

Anatomy 101F. Microscopic anatomy

The departmental staff.

Anatomy 102F. Human anatomy

The departmental staff.

Anatomy 102S. The structure and function of the nervous system

Drs. Carpenter and Noback (*Anatomy*).

Lectures, demonstrations, and laboratory.

Biochemistry 101F. Introductory biochemistry

The departmental staff.

Genetics 101T.

Dr. Marks and associates.

Medicine 101FS. Correlation clinics

Drs. Frantz and Herter.

Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102T. Introduction to the patient

Dr. Aranow and associates.

Includes physical diagnosis as well as patient approach.

Medicine 103T. Abnormal human biology

Dr. Rifkind and interdepartmental associates.

Exercises in the application and correlation of the basic sciences to a broad range of clinical problems, including the cardiopulmonary, renal, gastrointestinal, endocrinologic, and hematologic systems, as well as clinical immunology and infectious diseases. Teaching is by seminar with supporting lectures, and is closely integrated with the courses in pharmacology and with *Medicine 102T—Introduction to the patient*.

Microbiology 101S. General medical microbiology and immunology

The departmental staff.

Microbiology 105S. Principles of microbiology, immunology, epidemiology, and the specific diagnosis and therapy of infectious diseases

The departmental staff.

Pathology 101S. General and special pathology and neuropathology
Dr. King and the departmental staff.

Pharmacology 101T. General and special pharmacology
The departmental staff.

Physiology 101F. Human physiology
The departmental staff.

Psychiatry 101FST. Human behavior
Drs. Kolb and Michels, and the departmental staff.

Public Health 101T. Parasitic diseases
Dr. Katz and staff.
The protozoa, helminths, and arthropods of medical significance.

Surgery 101T. Introduction to surgery
Dr. Wiedel and staff.

► MAJOR CLINICAL YEAR

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Ngai and staff.

Dermatology 201. Dermatology and syphilology
Drs. Nelson, Sanders, Young, and staff.

Medicine 201. Ward clinical clerkship in medicine
Dr. Tapley (*in charge*) and staff.

Neurology 201. Ward clinical clerkship in neurology
Dr. Masland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Dr. Mount.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
Dr. DeVoe and staff. At Vanderbilt Clinic and the Eye Institute.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
Dr. Stinchfield and staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat

Dr. Baker and staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship

Dr. Behrman and staff. At Babies Hospital.

Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry

Drs. Michels, W. Hunt and Druss, and the clinical faculty. At New York State Psychiatric Institute, Presbyterian Hospital, Harlem Hospital and St. Luke's Hospital.

Public Health 201. Preventive and administrative medicine, forensic medicine and medical jurisprudence, and community medicine

The departmental staff.

Radiology 201. Diagnostic radiology (medical)

Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)

Dr. Seaman and staff.

Rehabilitation Medicine 201

Dr. Darling and staff.

Surgery 201. Clinical clerkship in surgery

Dr. Reemtsma and staff.

Surgery 202. Lectures and demonstrations in surgical pathology

Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology

Dr. Lattimer and staff.

► ELECTIVES (15 MONTHS)

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories; combined basic science-clinical electives, advanced clerkship, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; involvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth-year students who serve for three months in hospitals in South America, Africa, or Asia.

► SUMMARY OF STUDIES (IN HOURS)

BASIC SCIENCE

	HOURS		HOURS
Anatomy 101F	96	Microbiology 105S	53
Anatomy 102F	126	Pathology 101S	182
Anatomy 102S	44	Pharmacology 101T	102
Biochemistry 101F	108	Physiology 101F	108
Genetics 101T	34	Psychiatry 101FST	93
Medicine 101FS	31	Public Health 101T	39
Medicine 102T	181	Surgery 101T	34
Medicine 103T	136	TOTAL	1,440
Microbiology 101S	73		

MAJOR CLINICAL YEAR

	HOURS		HOURS
Anesthesiology 201	64	Psychiatry 201	130
Dermatology 201	17	Public Health 201	65
Medicine 201	330	Radiology 201	11
Neurology 201-202	192	Radiology 202	11
Obstetrics and Gynecology 201	192	Rehabilitation Medicine 201	10
Ophthalmology 201	18	Surgery 201	160
Orthopedic Surgery 201	64	Surgery 202	20
Otolaryngology 201	18	Urology 201	64
Pediatrics 201	192	TOTAL	1,558

► SPECIAL PROGRAMS

PROGRAMS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A student may plan a sequential program leading to the award of both the M.D. and the Ph.D. degrees. He may begin such a program either in the College or under the Faculty of Pure Science, but he may not be registered in the two faculties concurrently. It is usually to his advantage to complete the requirements for the M.D. degree first, since some of the required medical courses and elective research opportunities may be credited toward the Ph.D. degree. A student interested in this program should consult the chairman of the basic science department in which he plans to major and the Associate Dean of the Faculty of Medicine.

A limited number of students may be accepted in the basic science departments of the College—Anatomy, Biochemistry, Genetics, Microbiology, Pathology, Pharmacology, and Physiology—and in the Subcommittee on Biophysics (see below). Because of limited facilities only candidates for the Ph.D. degree are accepted. Work toward the degree in the basic science departments is under the jurisdiction of the Faculty of Pure Science of the University and must receive

approval by the departmental chairman concerned. Admission and degree requirements and courses of instruction are given in the bulletin of the Graduate School of Arts and Sciences.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

CURRICULA IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor or Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin *Courses in Physical Therapy and Occupational Therapy.*

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN HUMAN NUTRITION

The Faculty of Medicine offers a program of study in nutrition leading to the degree of Master of Science in human nutrition. Prerequisite for admission is an M.D. degree from an approved medical school or a bachelor's degree from a college or university approved by Columbia University. Previous preparation in quantitative analysis, elementary organic chemistry, and elementary biochemistry is recommended for admission. Evidence of personal capability and fitness for this field is also a requirement. In addition to completing 32 credit points in prescribed courses or their equivalent, the candidate must devote three months full time to research work in nutrition and field work in human nutrition and submit a thesis or essay. This program is designed for those desiring to work in the clinical field of nutrition in health and disease.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

The Postgraduate Program

Opportunities for medical training beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree who have completed hospital internships. Proper training for specialization includes three major elements: First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This in turn may stimulate the type of creative productivity that may earn him a recommendation that he be admitted to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and St. Luke's Hospital. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Departments of Instruction

ANATOMY

PROFESSOR AND CHAIRMAN

Edward W. Dempsey. *B.A., Marietta, 1932; Sc.M., Brown, 1934; Ph.D., 1937; M.A., Harvard, 1946; Sc.D. Marietta, 1954*

PROFESSORS

Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D. Long Island, 1947*
Frederick A. Mettler (Neurology). *B.A., Clark, 1929; M.A., Cornell, 1931; Ph.D., 1933; M.D., Georgia, 1937; D.Sc.. Clark, 1951*
Melvin L. Moss (Dean, Faculty of Dental and Oral Surgery). *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
George K. Smelser (Ophthalmology). (Malcolm P. Aldrich Professor) *B.A., Earlham, 1929; Ph.D., Chicago, 1932*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*

ASSISTANT PROFESSORS

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
George W. Cooper, Jr. *B.A., Brown, 1958; Ph.D., Stanford, 1964*
William G. Dilley. *B.A., California (Berkeley), 1965; M.A., 1967; Ph.D., 1970*
Ray C. Henrikson. *B.Sc., Massachusetts, 1959; M.Sc., Brown, 1961; Ph.D., Boston, 1966*
W. Patrick Luckett. *B.A., Missouri, 1961; M.A., 1963; Ph.D., Wisconsin, 1967*
Mary S. Parshley (Obstetrics and Gynecology). *B.A., Smith, 1933; M.A., Pennsylvania 1935; Ph.D., 1938*
Gerard P. Pereira. *B.Sc., Columbia, 1961; M.Sc., McGill, 1965; Ph.D., 1968*
John J. Rasweiler IV. *B.A., Colgate, 1965; Ph. D., Cornell, 1970*
Robert W. Rice (Orthopedic Surgery). *B.A., Cornell, 1965; M.S., New York Medical College, 1967; Ph.D., 1969*
Letty Moss Salentijn. *D.D.S., State University of Utrecht, 1967*
Alfonso Solimene. *B.A., Brooklyn, 1954; M.A., Columbia, 1959; Ph.D., 1970*

ADJUNCT ASSISTANT PROFESSORS

Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*
Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*

RESEARCH ASSOCIATES
Bei-Loo Chen
Robert J. Demarest
Joseph Reibeisen

INSTRUCTOR
Robert M. Hunt, Jr.

SPECIAL LECTURER
Edmund Applebaum

ANESTHESIOLOGY

PROFESSOR AND CHAIRMAN

Shih-Hsun Ngai. *M.B., National Central (Nanking), 1944*

► AT PRESBYTERIAN HOSPITAL

PROFESSORS

Robert M. Epstein. *B.S., Michigan, 1947; M.D., 1951*
Ronald L. Katz. *B.A., Wisconsin, 1952; M.D., Boston, 1956*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Herbert Rackow. *B.S., Pennsylvania State, 1939; M.D., Harvard, 1946*

PROFESSOR OF PEDIATRICS

L. Stanley James. *M.D., Otago (New Zealand), 1948*

PROFESSORS OF CLINICAL ANESTHESIOLOGY

Leonard Brand. *B.S., Yale, 1946; M.D. Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*
Herman Schwartz. *B.A., New York University, 1944; M.D., 1946*

ADJUNCT PROFESSOR OF ANESTHESIOLOGY

Sidney Spector (see Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

ASSOCIATE PROFESSORS

Mieczyslaw Finster. *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Joannes H. Karis. *M.D., State University of Utrecht, 1952*
Richard W. Patterson. *B.A., Iowa, 1944; M.D., 1947*
Paul J. Poppers. *M.D., Amsterdam, 1955*
Stuart E. Sullivan. *B.S., Canisius, 1950; M.D., State University of New York (Upstate), 1955*

ASSOCIATE PROFESSOR OF CLINICAL ANESTHESIOLOGY

Charles E. Wolf. *B.A., Texas Lutheran, 1950; M.D., Texas, 1954*

ASSISTANT PROFESSORS

Robert T. Donham. *B.A., Evansville, 1954; M.S., New York University, 1960; Ph.D., 1962; M.D., Columbia, 1966*
Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Allen I. Hyman. *B.A., Columbia, 1955; M.D., Albany, 1959*

Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Shirley J. Markee. *B.A., Duke, 1953; M.D., 1958*
Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Hilda Pedersen. *M.B., Ch. B., Edinburgh, 1958*
Daniel M. Pino. *M.D., New York University, 1942*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

ASSISTANT PROFESSORS OF CLINICAL ANESTHESIOLOGY

Veronica Bakamjian. *B.A., American (Beirut), 1932; M.D., 1937*
Jean Henley. *B.A., Barnard, 1937; M.D., Columbia, 1940*
Arnold St. John Lee. *B.A., Temple, 1947*
Philip Liu. *B.A., Brown, 1962; M.D., State University of New York (Downstate), 1966*
Jordan Miller. *B.A., Brandeis, 1962; M.D., Columbia, 1966*

ASSOCIATES

Dorothy A. Black
Carolyn P. Greenberg
Letty M. P. Liu
Krishan Malik

RESEARCH ASSOCIATES

Salha S. Daniel
Iris W. Schwartz
Mariagnes Verosky
Yvonne Vulliemoz

INSTRUCTOR

Gerald L. Feinberg
Koshang J. Khambatta
Laurence J. Krenis
Anthony J. Salvatore

► AT MARY IMOGENE BASSETT HOSPITAL

ASSISTANT CLINICAL PROFESSOR

William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

► AT HARLEM HOSPITAL

ASSOCIATE CLINICAL PROFESSOR

Herbert G. Cave. *M.D., Howard, 1947*

ASSISTANT CLINICAL PROFESSORS

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*
Archibald K. Hinds. *B.A., City College of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Stephanie Shich. *M.D., University of Josef Pilsudski, 1937*
Kentaro Tsueda. *M.D., Okayama, 1958*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

INSTRUCTOR

Theodosia H. Mack

► AT ROOSEVELT HOSPITAL

ASSISTANT CLINICAL PROFESSORS

Ronald A. Andree. *B.A., Miami (Ohio), 1955; M.D., Case Western Reserve, 1959*
Wally Gordon. *M.B., B.Ch., Witwatersrand, 1939; M.D., 1945*
Richard Keenan. *M.D., Creighton, 1957*

INSTRUCTORS

Michael J. Brecher
Ignacia U. Ngo
William M. Smith

► AT ST. LUKE'S HOSPITAL

ASSOCIATE PROFESSOR OF CLINICAL ANESTHESIOLOGY

Louis S. Blancato. *M.D., New York Medical College, 1945*

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY

Ennio Gallozzi. *M.D., Rome, 1953*

ASSISTANT CLINICAL PROFESSOR

Errol N. Harding. *B.A., McGill, M.D., C.M., 1949*

ASSOCIATES

Joseph Iacovelli
Hilda H. C. Liu

ASSOCIATES (*continued*)

Alfred T. C. Peng
Altagracia H. Polanco

INSTRUCTOR

Ming C. Chiou

BIOCHEMISTRY

PROFESSOR AND CHAIRMAN

Erwin Chargaff. *Ph.D., Vienna, 1928*

PROFESSORS

Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941; Ph.D., Duke, 1950*
Philip Feigelson (Cancer Research). *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Samuel Graff. *B.S., Purdue, 1927; Ph.D., Columbia, 1931*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*
Seymour Lieberman (Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*
Barbara W. Low (Biochemical Crystallography). *B.A., Oxford, 1942; M.A., 1946; D.Phil., 1948*
Maurice M. Rapport (Psychiatry). *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*
David B. Sprinson (American Heart Association Professor). *B.A., College of the City of New York, 1931; M.S., New York University, 1936; Ph.D., Columbia, 1946*
Parithychery Srinivasan. *B.Sc., Madras; Ph.D., 1953*

ASSOCIATE PROFESSORS

Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*
Dezider Grunberger (Institute of Cancer Research). *M.Sc., Technical University (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*
John D. Karkas. *B.A., Thessaloniki (Greece), 1952; Ph.D., Columbia, 1962*
David J. Smith. *D.D.S., Columbia, 1944*

ASSISTANT PROFESSORS

George Alexander (Psychiatry). *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Elinor F. Brunngraber. *Ph.D., Cornell, 1962*
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Robert H. Hamlin (Health Administration). *B.A., Ohio State, 1944; B.S.M., 1944; B.M., 1946; M.D., Northwestern, 1947; M.P.H., Harvard, 1952; LL.B., 1953*
Nora Piore (Health Economics). *B.A., Wisconsin, 1933; M.A., 1934*
Ernest L. Wynder. (Public Health Practice). *B.A., New York University, 1943; B.S., Washington (St. Louis), 1950; M.D., 1950.*

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Virginia M. Brown (Administrative Medicine). *B.A., Boston, 1947; M.N., Yale, 1950; M.S., Columbia, 1955*
Elinor F. Downs (Public Health Practice). *B.A., Smith, 1933; M.D., Johns Hopkins, 1937; M.P.H., Columbia, 1952*
Allen S. Ginsberg (Health Administration). *B.M.E., Cornell, 1958; M.I.E., 1959; Ph.D., Stanford, 1970*
William C. Thomas, Jr. (Public Health Practice). *B.S., Utah, 1942; M.S., 1950; Ph.D., Columbia, 1962*

ADJUNCT ASSOCIATE PROFESSORS

Emanuel Bund (Public Health Law). *B.S., St. Johns, 1934; J.S., 1937; J.Sc.D., 1938*
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Elliott C. Roberts (Administrative Medicine) (at Harlem Hospital). *B.S., Morgan State, 1951; M.A., George Washington, 1963*
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Charles G. Roswell (Administrative Medicine). *B.S., St. John's, 1934; LL.B., 1938*
Vernon F. Spencer (Administrative Medicine). *B.A., Montana State, 1942; M.S., Columbia, 1965*

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Regina Loewenstein (Administrative Medicine). *B.A., Barnard, 1936; M.A., Columbia, 1937*
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Ruth J. Guttmann. *M.D., Silesian Friedrich-Wilhelm, 1932*
Eric Hall (Physics). *Ph.D., Iriel (Oxford), 1962*
Sadek Hilal. *M.D., Cairo, 1955*
Philip M. Johnson. *B.A., Dartmouth, 1948; M.D., Columbia, 1951*
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William Gross (Physics). *B.A., Columbia, 1947; M.A., 1949; Ph.D., 1959*
Albrecht M. Kellerer (Physics). *Ph.D., Munich, 1965*

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Patricia Tretter. *B.A., Marquette, 1944; M.D., 1949*
Robert L. Waldron. *B.A., Princeton, 1958; M.D., Harvard, 1962*

ASSOCIATE CLINICAL PROFESSOR

Meyer Alpert. *B.S., College of the City ofNew York, 1942; M.D., Middlesex, 1945*

ASSISTANT PROFESSORS

Arnold L. Bachman. *B.S., New York University, 1931; M.D., 1934*
Carmia Borek. *B.S., M.S., Ph.D., Weizmann Institute (Israel), 1967*
Charles R. Feuer. *B.A., Columbia, 1958; M.D., New York University, 1962*
Donald L. King. *B.A., Stanford, 1956; M.D., Columbia, 1960*
Shirley Lehnert (Physics). *Ph.D., London, 1961*
James A. Reilly. *M.D., Columbia, 1947*
Bruce E. Wiley. *B.A., Oberlin, 1956; M.D., Chicago, 1960*

ASSISTANT PROFESSORS OF CLINICAL RADIOLOGY

William L. Campbell. *B.A., Duke, 1960; M.D., Cornell, 1964*
David A. Follett. *B.A., Harvard, 1959; M.D., Tufts, 1964*
Stuart L. Fuld. *B.A., Dartmouth, 1959; M.D., Johns Hopkins, 1963*
Bentley A. Hollander. *B.A., Temple, 1961; M.D., 1965*
Kevin L. Macken. *M.D., National University of Ireland, 1947*

ASSISTANT CLINICAL PROFESSORS

William J. Casarella. *B.A., Yale, 1959; M.D., Harvard, 1963*
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Louis A. Rottenberg. *B.S., Boston, 1936; M.D., 1940*
John J. Senyszyn. *B.S., College of the City of New York, 1961; M.D., Seton Hall, 1965*

ADJUNCT ASSISTANT PROFESSOR

Bruce J. Biavati (Physics). *B.A., Columbia, 1953; M.A., 1955; Ph.D., 1964*

ASSOCIATES

Leon J. Goodman (Physics)
Charles M. Herbert, Jr. (Physics)
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RESEARCH ASSOCIATES

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Otto D. Sahler. *M.S., Rochester, 1936; M.D., 1938*

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ASSISTANT PROFESSOR OF CLINICAL RADIOLOGY

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ASSISTANT CLINICAL PROFESSORS

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Philip D. Wiedel. *B.S., Cannes (France), 1934; B.A., Columbia, 1938; M.D., 1941*

ASSISTANT PROFESSORS

Paul M. Beach, Jr. *B.A., Lehigh, 1954; M.D., Temple, 1958*
Harold M. Bruck. *B.A., Hamilton, 1958; M.D., Columbia, 1962*
Richard N. Edie. *B.A., Princeton, 1959; M.D., Columbia, 1965*
Kenneth Forde. *B.S., College of City of New York, 1954; M.D., Columbia, 1959*
Richard Weil III. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Bashir Zikria. *B.S., George Washington, 1954; M.D., Johns Hopkins, 1958*

ASSISTANT PROFESSOR OF BIOCHEMISTRY

Irving Goodman. *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*

ASSISTANT PROFESSORS OF CLINICAL SURGERY

Robert G. Bertsch. *B.A., Carleton, 1953; M.D., Columbia, 1957*
Shivaji B. Bhonslay, Jr. *M.D., American University of Beirut, 1944*
Sven Kister. *B.A., Dartmouth, 1955; M.D., Harvard, 1958*
John N. Schullinger. *B.A., Princeton, 1951; M.D., Columbia, 1955*

ASSISTANT CLINICAL PROFESSOR

Paul H. Gerst. *B.A., Columbia, 1948; M.D., 1952*

RESEARCH ASSOCIATES
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- Sidney J. Bennett
- David Bregman
- John R. Broell
- Morimas Kasuya
- Joel Kupersmith (Pharmacology)
- Magda Levy
- Calvin Long
- Duncan L. McCollester
- Charles Merker
- Shanta M. Modak

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- P. G. Satyswaroup
- Nicole Sucui-Foch
- Anthony D. Whittemore

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- Sherman M. Bull
- Marvin L. Hartstein
- Robert Z. Hands

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- John Relland
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SPECIAL LECTURER
- William A. Gardner

► AT MARY IMOGENE BASSETT HOSPITAL

CLINICAL PROFESSOR

David A. Blumenstock. *B.A., Union, 1949; M.D., Cornell, 1953*

ASSOCIATE CLINICAL PROFESSOR

Rodman D. Carter (Urology). *B.A., Harvard, 1950; M.D., Columbia, 1954*

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Thomas P. Ashford. *B.A., Willamette, 1947; M.S., Oregon, 1951; M.D., 1953*
Edward J. Carey, Jr. *B.A., Harvard, 1954; M.D., Cornell, 1958*
Thomas A. Farrell (Ophthalmology). *M.Ba., Hamilton, 1957; M.D., McGill, 1961*
Martien A. Mulder. *B.A., Syracuse, 1958; M.D., Rochester, 1962*
John E. Olsen. *B.A., Kansas, 1953; M.D., 1956*

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PROFESSOR

Jose M. Ferrer. *B.A., Princeton, 1934; M.D., Columbia, 1938*

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Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*

ASSOCIATE CLINICAL PROFESSORS

John E. Hutchinson. *B.S., Morehouse, 1953; M.D., Meharry, 1957*
Robert F. Morton. *M.D., Meharry, 1944*

ASSISTANT CLINICAL PROFESSORS

Salvatore G. Cinque. *B.S., College of the City of New York, 1943; M.D., Loyola, 1946*
Arthur L. Garnes. *B.S., College of City of New York, 1933; M.D., Howard, 1937*
Walter W. Miner. *M.D., St. Louis, 1936*
John W. Parker, Jr. *B.A., Fisk, 1942; M.D., Meharry, 1945*
Eugene Quash. *B.S., College of the City of New York, 1943; M.D., Howard, 1946*
Joseph A. Tamerin. *B.S., New York University, 1928; M.D., Cornell, 1932*
John M. Wilson. *M.D., Cornell, 1948*

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CLINICAL PROFESSOR

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William H. Cassebaum. *B.A., Cornell, 1927; M.D., 1931*
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Adrian Lambert, Jr. *B.A., Yale, 1930; M.D., Columbia, 1934*
J. William Littler. *M.D., Duke, 1942*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
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David M. Carberry. *Ph.B., Providence, 1947; M.D., Jefferson, 1951*
Richard G. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
Charles C. Harrold, Jr. *B.S., Georgia, 1937; M.D., Harvard, 1941*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
T. Scudder Winslow. *B.A., Princeton, 1938; M.D., Cornell, 1942*
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CLINICAL PROFESSOR

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Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
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Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*
Robert W. Schick. *B.A., Columbia, 1948; M.D., New York Medical College, 1952*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

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UROLOGY

PROFESSOR AND CHAIRMAN

John K. Lattimer. *B.A., Columbia, 1935; M.D., 1938; Med.Sc.D., 1943*

► AT PRESBYTERIAN HOSPITAL

PROFESSOR OF CLINICAL UROLOGY

Ralph J. Veenema. *B.A., Calvin, 1942; M.D., Jefferson, 1945*

ASSOCIATE PROFESSOR OF PATHOLOGY

Myron Tannenbaum. *B.S., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

ASSOCIATE PROFESSOR OF CLINICAL UROLOGY

Hans H. Zinsser. *B.S., Harvard, 1938; M.D., Columbia, 1942*

ASSOCIATE CLINICAL PROFESSORS

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

ASSISTANT PROFESSORS

Harry Seneca. *M.D., American University of Beirut, 1933; M.S., Tulane, 1943*
Arthur M. Smith. *B.A., Cornell, 1959; M.D., Maryland, 1963*

ASSISTANT PROFESSOR OF PATHOLOGY

Phillip Tomashefsky. *Ph.D., New York University, 1969*

ASSISTANT PROFESSORS OF CLINICAL UROLOGY

John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*
Aurelio Uson. *M.D., Barcelona (Spain), 1950*

ASSISTANT CLINICAL PROFESSORS

J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*

Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*
Sandor H. Wax. *B.S., Boston, 1949; M.S., Union, 1950; M.D., Tufts, 1954*

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Stanford Pulrang

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ASSOCIATE CLINICAL PROFESSOR OF SURGERY

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INSTRUCTOR

Urbano K. Guarin

► AT ROOSEVELT HOSPITAL

ASSISTANT CLINICAL PROFESSORS

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., Albany, 1952*

INSTRUCTOR

James W. Vastola

► AT ST. LUKE'S HOSPITAL

ASSISTANT PROFESSOR OF CLINICAL UROLOGY

Manuel Fernandes. *M.D., Coimbra (Portugal), 1956*

ASSISTANT CLINICAL PROFESSOR

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

INSTRUCTORS

Alfred F. Fretz
Waleed G. Maloof
Constantine Photos
Joseph D. Putignano
Rudolph D. Talarico
Pellegrino J. Tozzo

ASSISTANT

Arumbi P. Subramaniam

Internship Placement: Class of 1972

Barkin, Joan	*University of Virginia, Charlottesville, Va.*	*Pediatrics*
Barkin, Neil	*University of Virginia, Charlottesville, Va.*	*Surgery*
Bell, Christopher	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Bent, George	*Presbyterian-University, Pittsburgh, Pa.*	*Medicine*
Bessman, J. David	*LA County USC Medical Center, Los Angeles, Calif.*	*Medicine*
Black, Thomas J.	*St. Vincent's Hospital, New York, N.Y.*	*Surgery*
Bogdasarian, Michael	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Boucher, Charles A.	*Beth Israel Hospital, Boston, Mass.*	*Medicine*
Bower, James S.	*University of Michigan, Affiliated, Ann Arbor, Mich.*	*Medicine*
Boxer, Robert	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Cabot, Anthony	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Cabot, Catherine	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Carlson, Robert	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Carlson, Susan	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Chan, Philip	*University of Virginia, Charlottesville, Va.*	*Surgery*
Ciafone, Russell	*New York Memorial Hospital, New York, N.Y.*	*Medicine*
Collins, Lucy	*Roosevelt Hospital, New York, N.Y.*	*Rotating*
Curtis, David L.	*Johns Hopkins Hospital, Baltimore, Md.*	*Medicine*
Curtis, John	*Mary Imogene Bassett, Cooperstown, N.Y.*	*Medicine*
Daines,, Joseph G.	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Dann, Francis J.	*LA County USC Medical Center, Los Angeles, Calif.*	*Medicine*
Dickens, Michael	*University of Virginia, Charlottesville, Va.*	*Pediatrics*
Dienstag, Jules	*University of Chicago, Chicago, Ill.*	*Medicine*
Dresdale, Robert	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Dresdale, Susan	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Durbin, William	*Mary Hitchcock Memorial, Hanover, N.H.*	*Medicine*
Eisenstein, Barry	*North Carolina Memorial, Chapel Hill, N.C.*	*Medicine*
English, Woodruff	*Vanderbilt University, Nashville, Tenn.*	*Medicine*
Evans, Jonathan	*Presbyterian University, Pittsburgh, Pa.*	*Medicine*
Finck, A. Donald	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Fleming, Richard	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Foster, Craig	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Frankel, Martin	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Ginsburg, Harry M.	*Beth Israel Hospital, Boston, Mass.*	*Surgery*
Glasier, James C.	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Green, Kenneth	*Michael Reese Hospital, Chicago, Ill.*	*Medicine*
Greenberg, Robert	*Beth Israel Hospital, Boston, Mass.*	*Medicine*
Guinther, Jay	*University of Minnesota, Minneapolis, Minn.*	*Surgery*
Hadler, James L.	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Hamilton, Robert	*University of Arizona Affiliated, Tucson, Ariz.*	*Medicine*
Hamilton, Ross	*Harlem Hospital, New York, N.Y.*	*Rotating*
Hammer, Scott	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Harrison, Edward	*Harlem Hospital, New York, N.Y.*	*Medicine*
Hasselbacher, Peter	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Haupert, Garner	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Hayward, Arthur	*Harlem Hospital, New York, N.Y.*	*Medicine*
Hayward, Malcolm	*Royal Victoria Hospital, Montreal, Canada*	*Medicine*
Henry, Douglas	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Hicks, John	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Hillis, Leslie	*Parkland Memorial Hospital, Dallas, Tex.*	*Medicine*
Horwitz, Marcus	*Bronx Mun. Hospital Ctr., New York, N.Y.*	*Medicine*
Huber, Philip	*Parkland Memorial Hospital, Dallas, Tex.*	*Surgery*

Johnson, Lawrence	*University Hospitals, Cleveland, O.*	*Pediatrics*
Kasch, John	*University of Kentucky Medical Center, Lexington, Ky.*	*Medicine*
Kemeny, Mary	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Kessler, Bruce	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Korn, Joseph	*North Carolina Memorial, Chapel Hill, N.C.*	*Medicine*
Latting, Clifton	*University of Chicago Clinics, Chicago, Ill.*	*Medicine*
Lau, William	*University of California Hospital, Los Angeles, Calif.*	*Medicine*
Leland, Anne	*Montefiore Hospital, New York, N.Y.*	*Pediatrics*
Lincoln, Lawrence	*University of Pennsylvania Hospital, Philadelphia, Pa.*	*Medicine*
Link, Arthur	*North Carolina Baptist Hospital, Winston-Salem, N.C.*	*Medicine*
Locke, Steven	*Mount Zion Hospital, San Francisco, Calif.*	*Rotating*
Logan, Bruce	*Harlem Hospital, New York, N.Y.*	*Rotating*
Lovell, Charles	*Harlem Hospital, New York, N.Y.*	*Rotating*
Lowy, Franklin	*Harlem Hospital, New York, N.Y.*	*Medicine*
Malitz, Alan	*Greenwich Hospital, Greenwich, Conn.*	*Rotating*
Martindale, Peter	*New York Memorial, New York, N.Y.*	*Medicine*
Mathers, James	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Maulitz, Robert	*Grady Memorial Hospital, Atlanta, Ga.*	*Medicine*
Mayer, Thomas	*University of Minnesota Hospital, Minneapolis, Minn.*	*Family Practice*
McGreevy, Thomas	*U.S.C. Medical Center, Los Angeles, Calif.*	*Psychiatry*
McGuire, Michael F.	*UCLA Affiliated Hospitals, Los Angeles, Calif.*	*Surgery*
McNeill, Douglas	*University Hospitals, Madison, Wisc.*	*Family Practice*
Menotti, Robert	*Mary Imogene Bassett, Cooperstown, N.Y.*	*Surgery*
Mickell, John	*Presbyterian University, Pittsburgh, Pa.*	*Pediatrics*
Mintz, Jesse	*St. Louis Children's Hospital, St. Louis, Mo.*	*Pediatrics*
Newmark, Michael	*Harlem Hospital, New York, N.Y.*	*Medicine*
Newton, Leslie	*Virginia Mason Hospital, Seattle, Wash.*	*Rotating*
Norton, Larry	*Bronx Municipal Hospital Center, Bronx, N.Y.*	*Medicine*
Packard, William	*Presbyterian Hospital, Denver, Colo.*	*Rotating*
Pancoast, Stephen	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Parmer, William	*Montefiore Hospital, New York, N.Y.*	*Medicine*
Parry, Lynn	*Cedars-Sinai Hospital, Los Angeles, Calif.*	*Rotating*
Plakun, Eric	*Mary Hitchcock Memorial Hospital, Hanover, N.H.*	*Medicine*
Porter, Robert	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Reeves, Glen	*Barnes Hospital, St. Louis, Mo.*	*Surgery*
Reiffel, Robert	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Resor, Stanley	*Harlem Hospital, New York, N.Y.*	*Rotating*
Robinson, Harry	*University of Virginia, Charlottesville, Va.*	*Surgery*
Romney, Benjamin	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Rousell, Charles	*Roosevelt Hospital, New York, N.Y.*	*Pediatrics*
Ryder, Robert	*Boston City Hospital, Boston, Mass.*	*Medicine*
Sauvigne, Arthur	*Mary Hitchcock Memorial, Hanover, N.H.*	*Medicine*
Schoene, Robert	*University of Washington Affiliated, Seattle, Wash.*	*Medicine*
Bruce Scotton	*Kaiser Foundation, San Francisco, Calif.*	*Medicine*
Seale, William	*Presbyterian Hospital, Denver, Colo.*	*Rotating*
Searl, Steven	*Mary Imogene Bassett, Cooperstown, N.Y.*	*Surgery*
Sedlacek, Keith	*St. Luke's Hospital, New York, N.Y.*	*Psychiatry*
Seplowitz, Alan	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Severinghaus, John	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Shaw, Peter	*University of Pennsylvania Hospital, Philadelphia, Pa.*	*Medicine*
Shiftan, Thomas	*San Diego County University, San Diego, Calif.*	*Medicine*
Sigmond, Mark	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Singer, Alfred	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Slate, Jerome	*Boston City Hospital, Boston, Mass.*	*Medicine*
Slutsky, Lawrence	*Beth Israel Hospital, New York, N.Y.*	*Medicine*
Stanton, Robert	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Stelzer, Paul	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Stoeckle, David	*Mary Imogene Bassett, Cooperstown, N.Y.*	*Surgery*

Stone, Richard	*University of Pennsylvania, Philadelphia, Pa.*	*Medicine*
Straus, Stephen	*Barnes Hospital, St. Louis, Mo.*	*Medicine*
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Taylor, Steven	*Medical University of South Carolina, Charleston, S.C.*	*Medicine*
Tomecki, Kenneth	*Meyer Memorial Hospital, Buffalo, N.Y.*	*Medicine*
Van Der Ziel, Cornelia	*Santa Clara Valley Medical Center, San Jose, Calif.*	*Rotating*
Vinci, Joseph	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Weininger, Richard	*Harlem Hospital, New York, N.Y.*	*Medicine*
White, Phyllis	*St. Johns Hospital, Tulsa, Okla.*	*Rotating*
Woodward, Randolph	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Weis, Lawrence	*Harbor General Hospital, Los Angeles, Calif.*	*Surgery*

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Alexander, Charles Beatty Sewickley, Pa.
B.A., Princeton, 1969

Altman, Philip New York, N.Y
B.S.E.E., City College (New York), 1969

Armstrong, Robert Bruce Charlotte, N.C
B.A., Haverford, 1969

Austin, Howard Albert, III New York, N.Y.
B.A., Yale, 1969

Barnard, William Lloyd, Jr. New York, N.Y.
B.A., Colgate, 1964
M.B.A., Rutgers, 1967

Bell, Edward Frank Washington, Pa.
B.A., Washington & Jefferson, 1969

Bellamy, Robert Edgar Sandusky, Ohio
B.S., Ohio State, 1968

Blackinton, Charles Harry Pasadena, Calif.
B.S., U.S. Naval Academy, 1961

Boyce, James Daniel Poultney, Vt.
B.A., Columbia, 1969

Brabbee, Gregory William Neenah, Wis.
B.A., Northwestern, 1969

Brown, Malcolm McDougal Lake Forest, Ill.
B.A., Yale, 1969

Bruen, Marian Anthon Oyster Bay, L.I.
B.A., Connecticut College, 1968

Calderbank, James Blake New Haven, Conn.
B.S., Yale, 1969

Carroll, David Stewart East Williston, N.Y.
B.A., Colgate, 1969

Chester, Alexander Campbell East Williston, N.Y.
B.S., Georgetown, 1969

Chiu, David Tak Wai Memphis, Tenn.
B.A., Missouri, 1969

Collins, Steven James Toledo, Ohio
B.A., Kenyon, 1969

Craig, Edward Vincent New Milford, N.J.
B.A., Princeton, 1969

Creelman, Kevin Bremerton, Wash.
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M.S., Bucknell, 1968

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DePasquale, Eugene Edward Southampton, N.Y.
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Dericks, Gerald Henry, Jr. Tulsa, Okla.
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B.A., College of Wooster, 1969

Feinfeld, Linda Ellen Rye, N.Y.
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Finley, David H. Scarsdale, N.Y.
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Fraser, Patricia Ann New York, N.Y.
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Friedlander, Richard Paul Baltimore, Md.
B.A., Case Western Reserve, 1969

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Goldberger, Mark Jay Perth Amboy, N.J.
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Greenberg, Roger Lee Denver, Colo.
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B.A., Columbia, 1969

Grundfest, Sharon Frieda Belleville, N.J.
S.B.E.E., Massachusetts Institute of Technology, 1969

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Hacker, Peter Sam New Hyde Park, N.Y.
B.S., Tufts, 1969

Hakes, Thomas Brion Indianapolis, Ind.
B.S., Rose Polytechnic Institute, 1967
Halsted, Douglas Oliver Cresskill, N.J.
B.A., Dartmouth, 1969
Handwerger, Richard Michael New York, N.Y.
B.A., Hunter, 1968
Hawkins, Katherine Ann Greenwich, Conn.
B.A., Manhattanville, 1969
Herbert, John Thomas Williamson, N.Y.
B.A., Columbia, 1969
Heyman, Richard Benjamin North Plainfield, N.J.
B.A., Columbia, 1969
Hoffman, Peter Robert Teaneck, N. J.
B.A., Columbia, 1969
Huskins, Dennis George Hempstead, N.Y.
B.A., Wesleyan, 1968
Hutcheon, David Forbes Livingston, N.J.
B.A., Yale, 1969
Johnson, Sara Jane Southampton, N.Y.
B.A., Smith, 1968
Kalter, Joshua Orlinoff Holyoke, Mass.
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Kaye, Jefferson James Coral Gables, Fla.
B.A., Duke, 1969
Keddington, Robert Samuel Salt Lake City, Utah
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Kouzmanoff, Alan Port Chester, N.Y.
B.A., Columbia, 1969
Kvam, David Adolph Litchfield, Minn.
B.S., St. Olaf, 1969
Lake, Alan Shanley Blackfoot, Idaho
B.A., Columbia, 1967
Leahey, Edward Berry, Jr. South Nyack, N.Y.
B.A., Fordham, 1969
Leahy, Dennis Robert Wilmette, Ill.
B.A., Princeton, 1969
Leimert, Joseph Thompson Hohokus, N.J.
B.A., McGill, 1969
Lipton, Mitchel Alfred West Orange, N.J.
B.A., Rutgers, 1969
Lombardo, John Wayne New York, N.Y.
B.A., Columbia, 1969
Luken, Martin Gerard, III Chicago, Ill.
B.S., Georgetown, 1969
Lupovici, Mihai Z. New York, N.Y.
B.A., New York University, 1969
Lynn, Stephan Gordon Hammond, Ind.
B.A., Swarthmore, 1969
Lyons, David Chandler Kenilworth, Ill.
B.A., Yale, 1965
M.B.A., Harvard, 1967
McAuliffe, Vincent Joseph Teaneck, N.J.
B.S., Boston College, 1969
McConnell, Robert John Whitesboro, N.Y.
B.A., Hamilton, 1969
McCuen, Brooks Walton DeWitt, N.Y.
B.A., Hamilton, 1969
McKay, Lauchlan Newton Center, Mass.
B.M.E., Union, 1966
M.S., Polytechnic Brooklyn, 1969
McLanahan, Charles Scott Farmington, Mich.
B.A., Yale, 1969
McLean, Edward Righter, Jr. Greenville, Del.
B.A., Princeton, 1969
Makrauer, Frederick Lang Boston, Mass.
B.A., Princeton, 1969
Mascitelli, Robert Joseph New York, N.Y.
B.A., Holy Cross, 1970
Mattison, Donald Roger Minneapolis, Minn.
B.A., Augsberg, 1966
Mears, John Gregory Buffalo, N.Y.
B.S., Trinity, 1969
Meehan, Thomas Charles Bergenfield, N.J.
B.S., Fairfield, 1969
Mezaraups, Gunar Gundis Cincinnati, Ohio
B.A., Columbia, 1969
Michelson, Eric Lee Philadelphia, Pa.
B.A. and M.S., Pennsylvania, 1969
Myerberg, David Zell Baltimore, Md.
B.A., Princeton, 1969
Myers, Alexander Gordon Needham, Mass.
B.A., Harvard, 1965
Nissenblatt, Michael Jeffrey Peekskill, N.Y.
B.A., Washington & Jefferson, 1970
Okamoto, Emi New York, N.Y.
B.A., Mount Holyoke, 1969
O'Neill, Donald Andrew Shelter Island, N.Y.
B.A., Columbia, 1969
Pepkowitz, Samuel Herschel Lewiston, N.Y.
B.A., Johns Hopkins, 1969
Peteet, John Raymond Atlanta, Ga.
B.S., Wheaton, 1969
Pierson, Eric William Neligh, Nebr.
Pines, Jeffrey Martin Tenafly, N.J.
B.A., Columbia, 1969
Platt, Tan Jackson Easton, Md.
B.S., Trinity, 1969
Powlis, William Davenport New York, N.Y.
B.S., City College (New York), 1969
Pynoos, Robert S. Los Angeles, Calif.
B.A., Harvard, 1965
Rapisardi, Nancy Jeanne Colorado Springs, Colo.
B.A., Radcliffe, 1969
Rau, Dean William Willmar, Minn.
B.A., Harvard, 1968
Ress, Richard R. Teaneck, N.J.
B.A., Princeton, 1969

Riehle, Robert Arthur, Jr. Cincinnati, Ohio
B.A., Yale, 1969
Rosenfeld, Jonathan Eliot New York, N.Y.
B.A., Columbia, 1969
Rubin, George Henry New York, N.Y.
B.A., New York University, 1969
Ruskin, Frederic Leonard Scottsdale, Ariz.
B.A., Stanford, 1967
Sacks, Linda M. Philadelphia, Pa.
B.A., Pennsylvania, 1968
Santamaria, Jaime New York, N.Y.
B.S., Cooper Union, 1969
Santulli, Robert B. New York, N.Y.
B.A., Yale, 1969
Saunders, Richard Ames New York, N.Y.
B.A., Dartmouth, 1969
Schultz, Neal Bruce Briarwood, N.Y.
B.A., Pennsylvania, 1969
Schwartz, Richard Lawrence Plainview, N.Y.
B.A., Pennsylvania, 1969
Sherman, William Merritt
Ogdensburg, N.Y.
B.S., Hamilton, 1969
Sherrid, Mark Victor New York, N.Y.
B.A., Cornell, 1969
Southwick, Frederick S. New Haven, Conn.
B.A., Yale, 1968
Speert, David Paul Scarsdale, N.Y.
B.A., Middlebury, 1969
Spielman, Scott Ronald New York, N.Y.
B.A., Columbia, 1969
Stewart, James Richard McMurray, Pa.
B.A., Brown, 1969
Stockman, Mark Brian Marblehead, Mass.
B.A., Harvard, 1969
Straus, John Herbert New York, N.Y.
B.A., Harvard, 1968
Syracuse, Donald Charles Centerport, N.Y.
B.A., Dartmouth, 1969
Tabor, Edward Bethesda, Md.
B.A., Harvard, 1969
Taub, David Joel Plainfield, N.J.
B.A., Harvard, 1969
Thornton, Yvonne Shirley
Long Branch, N.J.
B.S., Monmouth, 1969
Tornberg, David Norman
Gales Ferry, Conn.
B.S., U.S. Naval Academy, 1964
Trelstad, Donald Axton Salem, Ore.
B.A., Columbia, 1969
Untereker, William Joseph Tenafly, N.J.
B.A., Williams, 1968
Vander Veer, Peter J. Poughkeepsie, N.Y.
B.A., Pomona, 1969
Vertilli, John Loftus White Plains, N.Y.
B.A., Pennsylvania, 1969
Von Hoff, Daniel Douglas DePere, Wis.
B.S., Carroll (Wisconsin), 1969
Webb, Michael Terry Pittsburgh, Pa.
B.A., Bowdoin, 1969
Weeks, Lionel E. III Rockville Centre, N.Y.
B.A., Williams, 1968
Weiss, Allen Stanley Philadelphia, Pa.
B.A., La Salle, 1969
West, Robert Bernard Chappaqua, N.Y.
B.A., Princeton, 1968
Whitsett, Jeffrey Allen Chesterland, Ohio
B.A., Colgate, 1969
Wild, Wayne Simeon New York, N.Y.
B.A., Columbia, 1968
Williams, Philip Copelain, Jr. Chicago, Ill.
B.S., Yale, 1969
Winther, Lynn C.
Upper Saddle River, N.J.
B.A., Mount Holyoke, 1969
Wrobleski, Daniel Edward Holyoke, Mass.
B.S., Trinity, 1969
Yackulic, Charles Fred Bellevue, Wash.
B.A., Columbia, 1969

Class of 1974

Allyn, Thomas Richard Springfield, Ill.
B.A., Northwestern, 1968
Antman, Elliott Marshall Flushing, N.Y.
B.A., Columbia, 1971
Arlinghaus, Frank Henry, Jr. Rumson, N.J.
B.A., Columbia, 1970
Armstrong, Carol L. New York, N.Y.
B.A., Bryn Mawr, 1969
Bateman, Jane Bronwyn Long Beach, Calif.
B.A., California, 1970
Beaumont, Charles Barry Lakeville, Conn.
B.A., Yale, 1965
M.S.F.S., Georgetown, 1967
Benton, Edward Wayne Columbus, Ga.
B.S., Georgia Southwestern, 1970
Biertuempeel, Hugh C., III Summit, N.J.
B.A., Princeton, 1970
Blair, Lester Winston Bronx, N.Y.
B.A., Columbia, 1970
Blake, Jeffrey Wayne Cleveland, Ohio
B.A., Columbia, 1970

Blomstedt, Jeffrey William Wilmington, Del.
B.A., Dartmouth, 1970
Bodnar, Andrew Gabriel Bronx, N.Y.
B.A., Harvard, 1970
Boyle, James Joseph Hicksville, N.Y.
B.A., Yale, 1970
Burris, James Frederick Silver Spring, Md.
B.A., B.S., Brown, 1970
Burrows, Warren Booth Brookline, Mass.
B.A., Yale, 1967
Bush, Clinton Gilman, III Oyster Bay, N.Y.
B.A., Princeton, 1970
Bysshe, Stanley Mercer, Jr. New York, N.Y.
B.A., Virginia, 1970
Call, William Herbert South Burlington, Vt.
B.A., Yale, 1969
Chang, Stanley Bronx, N.Y.
B.S.E.E., Massachusetts Institute of Technology, 1968
M.S., Pennsylvania, 1970
Ching, Gerald Dock Sung Aiea, Hawaii
B.A., Hamilton, 1970
Christensen, Robert Dennis Layton, Utah
B.S., Utah, 1970
Clark, Shana Sinaid Winter Park, Fla.
B.A., Rollins, 1971
Clark, Tedana Wibberley Winter Park, Fla.
B.A., Rollins, 1971
Cody, Hiram Sedgwick, III Mountain Lakes, N.J.
B.A., Dartmouth, 1970
Collins, Anne Flagler Millbrook, N.Y.
B.A., Mills, 1961
Cornwall, John Wallace Short Hills, N.J.
B.A., Williams, 1970
Crandall, Marilyn Elizabeth Maplewood, N.J.
B.A., Wellesley, 1970
Daniels, Charles W. New York, N.Y.
B.A., Yale, 1967
Davis, Richard Clifton, Jr. San Angelo, Texas
B.A., Texas A&M, 1963
Ph.D., Texas A&M, 1968
Derkac, Wayne Michael Easton, Pa.
B.A., Dartmouth, 1970
Detwiller, John Patrick Rockville Centre, N.Y.
B.A., SUNY at Plattsburg, 1969
Diamond, Norman George Waterloo, Iowa
B.A., Columbia, 1970
Eng, John E. Suffern, N.Y.
B.A., Harvard, 1970
Evans, Lewis C., II Amityville, N.Y.
B.A., Cornell, 1963
LL.B., Cornell, 1965
Fischel, Robert Elliot Tenafly, N.J.
B.A., Brandeis, 1970
Fisher, Gregory Thomas New London, Conn.
B.A., Wesleyan, 1970
Fishman, Norman Bronx, N.Y.
B.A., Columbia, 1970
Forbes, Ronald Omega Hollis, N.Y.
B.A., Harvard, 1970
Ford, John Pegram Amherst, Mass.
B.A., Columbia, 1968
Foster, Leroy Paul, Jr. Chicago, Ill.
B.S., Loyola, 1970
Gale, Steven S. Hastings-on-Hudson, N.Y.
B.E., Vanderbilt, 1964
M.S., Columbia, 1970
Gladstone, Alan Richard Stamford, Conn.
B.S., Trinity, 1970
Goshorn, Robyn Kent Franklin, Ind.
B.A., Princeton, 1969
Grosh, William Wangerin Long Island City, N.Y.
B.A., New York University, 1970
Haagensen, Darrow E. Murrysville, Pa.
B.S., Hampden-Sydney, 1966
Ph.D., Tulane, 1971
Haberkern, Charles Martin Garden City, N.Y.
B.A., Yale, 1970
Habif, David Valentine, Jr. Plainsboro, N.J.
B.A., Princeton, 1970
Hadley, Terence James Rockville Centre, N.Y.
B.S., Fordham, 1970
Hagaman, John Frederick Wynnewood, Pa.
B.S., Trinity, 1970
Hamilton, Stuart Arnim Rockaway Park, N.Y.
B.S., Trinity, 1970
Higginbottom, Philip Arthur Easton, Md.
B.S.E., Princeton, 1969
Hirsch, Steven Robert Brooklyn, N.Y.
B.A., Yale, 1970
Hodess, Arthur Bart Bronx, N.Y.
B.A., Boston, 1970
Jeffers, Lennox John New York, N.Y.
B.S., St. John's, 1967
Johnson, Reginald Van New York, N.Y.
B.A., Windham, 1968
Johnson, Robert Carl Pelham, N.Y.
B.A., Columbia, 1965
Johnson, Roland Eric Hackensack, N.J.
B.A., Columbia, 1970
Jones, Wesley Earl Holly Springs, Miss
B.S., Tougaloo, 1970
King, William Leopold Yonkers, N.Y.
B.S., Manhattan, 1970
Krinsky, Michael Mayer New London, Conn.
B.A., Syracuse, 1970
Kuna, Samuel Thomas Westfield, N.J.
B.S., Muhlenberg, 1970

Kushner, Rederick Gary Great Neck, N.Y.
B.A., Columbia, 1970
Lane, Lewis Behr Plandome Manor, N.Y.
B.A., Columbia, 1970
Leach, James Clifton, N.J.
B.A., Rochester, 1970
Lesser, Howard Arthur, Jr. New York, N.Y.
B.A., Princeton, 1970
Letcher, Robert Lee Joliet, Ill.
B.S., William & Mary, 1970
Levine, Peter Robin Far Rockaway, N.Y.
B.A., Yale, 1970
Li, Suzanne Elmhurst, N.Y.
B.A., Oakland, 1970
Lovelace, Jesse Bernard Leechburg, Pa.
B.S., Pennsylvania State, 1970
Lowe, Edward H. New York, N.Y.
B.S., City College (New York), 1971
Lowe, Frederick William, III Manchester, Conn.
B.S., Tufts, 1970
Lunsford, Lawrence Dade Petersburg, Va.
B.A., Virginia, 1970
McClelland, Shearwood J. Gary, Ind.
B.A., Princeton, 1969
McConnell, John Claude Durham, N.H.
B.A., Wesleyan, 1968
MacDonald, Alan Bruce Manchester, Conn.
B.S., Tufts, 1970
McGrath, Patrick Joseph, Jr. West Orange, N.J.
B.S., Seton Hall, 1970
McNeil, Gloria Elaine Montreal, Canada
B.S., Howard, 1970
Marshall, Merville Cameron, Jr. Bronx, N.Y.
B.A., Columbia, 1970
Martin, Patricia Jewett New York, N.Y.
B.S., Columbia, 1969
Matkovic, Christopher S. Bronx, N.Y.
B.A., Rutgers, 1965
Ph.D., Harvard, 1970
Mattern, Richard Frank Clark, N.J.
B.A., Dartmouth, 1970
Miura, Dennis Seiji New York, N.Y.
B.S., Columbia, 1965
M.S., Columbia, 1967
Moldover, Jonathan Reuben Brooklyn, N.Y.
B.S., Trinity, 1970
Nall, James Griffin New Orleans, La.
B.A., Yale, 1970
Neuhut, Denis Scott Franklin Square, N.Y.
B.A., Columbia, 1970
Newton, Mary J. Pittsburgh, N.Y.
B.A., Stanford, 1970
Nicholson, John Mallory Wistar Morrestown, N.J.
B.S., Ohio Wesleyan, 1970
Orient, Jane Michel Tucson, Ariz.
B.A., B.S., Arizona, 1967
Overstreet, James Wilkins Savannah Beach, Ga.
B.A., University of the South, 1967
Passamonte, Paul Michael Avon, N.Y.
B.S., SUNY at Albany, 1970
Polkes, Eric William New York, N.Y.
B.A., Hobart, 1969
Pomerance, Glenn Noel Flushing, N.Y.
B.A., Bard, 1968
Prudden, Peter Allen Upper Nyack, N.Y.
B.A., Harvard, 1968
Quinn, James Andrew East Meadow, N.Y.
B.A., Hofstra, 1970
Rand, James Alan Huntington, N.Y.
B.A., Denver, 1970
Rapoport, Frederick Alan Scarsdale, N.Y.
B.A., Columbia, 1970
Rasmussen, Carl Arthur Maywood, N.J.
B.A., B.S.M.E., Lafayette, 1965
M.S., Columbia, 1970
Ray, Audell Woods Pluckemin, N.J.
B.A., Vassar, 1970
Reichelderfer, Mark Winnetka, Ill.
B.A., Amherst, 1970
Rerych, Stephen Karl New Rochelle, N.Y.
B.S., North Carolina State, 1969
Rosnick, Lyle Eugene Powhatan Point, Ohio
B.A., Columbia, 1970
Sabety, Eric Farid Montclair, N.J.
B.A., Franklin and Marshall, 1970
Savage, David Glass Chagrin Falls, Ohio
B.A., Wesleyan, 1970
Scharff, Nicholas St. Louis, Mo.
B.A., Yale, 1966
Scholes, John Vackiner Wilmington, Del.
B.S., Trinity, 1970
Schroeder, Karl John Suffern, N.Y.
B.A., Notre Dame, 1970
Schubach, William Harley Columbus, Ohio
B.A., Stanford, 1966
Schwartz, Allan Bronx, N.Y.
B.S., City College of New York, 1967
M.A., Harvard, 1968
Schwarz, Steven Michael Tuckahoe, N.Y.
B.A., Yale, 1970
Seals, Jerry Ellis Buffalo, N.Y.
B.S., SUNY at Buffalo, 1969
Seigle, Robert Lee Westfield, N.J.
B.A., Northwestern, 1970
Siegal, Michael Selig Bayside, N.Y.
B.A., Harvard, 1970
Smith, Rederick Keir San Diego, Calif.
B.A., Princeton, 1970
Solny, Meyer N. New York, N.Y.
B.A., Yeshiva, 1970
Spencer-Green, George T. Kenton, Ohio
B.A., Oberlin, 1969
B.A., Barnard, 1968
Stahl, Jeffrey Drew Maumee, Ohio

Squire, Gail Wilder Brooklyn, N.Y.
B.A., Princeton, 1970
Stearns, Gretchen New York, N.Y.
B.A., New York University, 1967
Stern, Roy Howard New York, N.Y.
B.A., Columbia, 1970
Stewart, Andrew Fyfe Bronxville, N.Y.
B.S., Trinity, 1970
Sturgis, Joan New York, N.Y.
B.A., Barnard, 1965
Tedeschi, Adele Catherine Long Island City, N.Y.
B.A., Vassar, 1970
Terry, William Ferrell Brentwood, Tenn.
B.A., Vanderbilt, 1970
Theodore, William H. New York, N.Y.
B.A., Harvard, 1969
Thomashow, Byron Martin Brooklyn, N.Y.
B.A., Columbia, 1970
Trippel, Stephen Bowman Evanston, Ill.
B.A., Swarthmore, 1970
Turco, John Harvey Melrose, Mass.
B.A., Harvard, 1970
Turi, Zoltan Gabriel Livingston, N.J.
B.A., Harvard, 1970
Vande-Stouwe, Robert Allen Queens Village, N.Y.
B.A., Manhattan, 1970
Van Valkenburg, Charles Mac Princeton, N.J.
B.S., Illinois, 1970
Wagner, Charles Gilbert New Milford, N.J.
B.S., Fairleigh Dickinson, 1971
Weber, James Karl New York, N.Y.
B.A., Yale, 1970
Weingarten, Michael S. Exton, Pa.
B.A., SUNY at Binghamton, 1970
Weiss, Karen S. Hamm Greenland, Pa.
B.S., Muhlenberg, 1970
Westerfield, Samuel Zaza, III Washington, D.C.
B.S., Howard, 1970
White, David Charles Dallas, Texas
B.A., Columbia, 1970
White, Eric Alan Casper, Wy.
B.A., Yale, 1970
Wilkins, Dennis Edward Washington, Mich.
B.S., Wayne State, 1970
Williams, Sue Brown New York, N.Y.
B.A., Grinnell, 1962
Wintch, Richard Wallace Manti, Utah
B.A., Utah, 1970
Winternitz, Charles Austin Mendham, N.J.
B.A., Johns Hopkins, 1970
Yee, Ngai Ming Honolulu, Hawaii
B.A., Northwestern, 1970

Class of 1975

Ambinder, Roy Mark New York, N.Y.
B.A., Yale, 1971
Andreson, James Lawrence Lexington, Mass.
B.A., Princeton, 1971
Antoine, Clarel Brooklyn, N.Y.
B.S., City College (New York), 1971
Aron, David Clark Bayside, N.Y.
B.A., Columbia, 1971
Bell, Kevin Edmund Hollywood, Fla.
Berger, Paul Robert Garden City, N.Y.
B.A., Duke, 1971
Berliant, Bonnie Sue New York, N.Y.
B.A., Barnard, 1968
Binkert, Barbara Lucile Yonkers, N.Y.
B.A., Ohio Wesleyan, 1963
Bodnar, Paul Zoltan Flushing, N.Y.
B.A., Johns Hopkins, 1971
Bolling, Karen Louise Bronx, N.Y.
B.S., City College (New York), 1971
Bonagura, Vincent Robert Staten Island, N.Y.
B.A., Columbia, 1971
Burthenshaw, Bruce Francis Logan, Utah
B.A., Utah State, 1971
Bushong, Charles Robert, Jr. Short Hills, N.J.
B.A., Princeton, 1971
Bussel, James Bruce New York, N.Y.
B.A., Yale, 1971
Carden, George Alexander, III New York, N.Y.
B.A., Yale, 1968
Casals-Ariet, Christina Brock New York, N.Y.
Casden, Richard Stephen Woodmere, N.Y.
B.A., Williams, 1971
Cassebaum, Mary Elizabeth Englewood, N.J.
B.A., Brown, 1970
Chang, Gloria Joan Hong Kong
B.S., McGill, 1971
Chou, James Y. Floral Park, N.Y.
B.S., Columbia, 1965
Ph.D., Washington (St. Louis), 1971
Cohen, Frances Bernard Cambridge, Mass.
B.A., Radcliffe, 1971
Cohen, Louisa Bea Laurelton, N.Y.
B.S., Queens (New York), 1971

Copeland, Brian R. Corning, N.Y.
B.A., Dartmouth, 1971
Corey, Timothy James Kenmore, N.Y.
B.S., Yale, 1971
D'Alessandro, Suzanne Shirley So. Orange, N.J.
B.A , Mount Holyoke, 1971
De Cresce, Robert Patrick Rumson, N.J.
B.S., Boston College, 1971
DeJak, Dorothy Ann Euclid, Ohio
B.A., Case Western Reserve, 1971
De Petrillo, Michael Albert Methuen, Mass.
B.A., Dartmouth, 1971
Deringer, Paul Martin Allentown, Pa.
B.A., Columbia, 1971
Dickinson, John Carlton E. Aurora, N.Y.
B.A., Amherst, 1971
diSant'Agnese, Paul Anthony Bethesda, Md.
B.A., Amherst, 1971
Drake, Dianne Elizabeth Lexington, Ky.
B.A., Radcliffe, 1967
Erginoz, Hasan Suha New York, N.Y.
B.S., Columbia, 1968
M.S , Columbia, 1969
Fain, Wendy Branower Providence, R.I.
B.A., Wesleyan, 1971
Feigal, David William, Jr. Minneapolis, Minn.
B.A., Minnesota, 1971
Fein, Henry George Malverne, N.Y.
B.S., Union, 1971
Feit, Alan S. Syracuse, N.Y.
B.E., City College (New York), 1968
M.S., Syracuse, 1971
Fink, Daniel Jonathan Rockaway, N.Y.
B.S., Cornell, 1968
M.S., Massachusetts Institute of Technology, 1970
Firestone, Melvin Martin Cleveland Heights, Ohio
B.A., Chicago, 1967
M.Ed., Temple, 1969
Fischer, Stuart James Jersey City, N.J.
B.A., Virginia, 1971
Fleischman, Jay Alan Lawrence, N.Y.
B.S., Columbia, 1971
Ford, James William Memphis, Tenn.
B.S., Tennessee State, 1971
Fox, Jerry Cullen Mt. Carmel, Ill.
B.S , Illinois, 1969
Freund, John Shelton Forest Hills, N.Y.
B.A., Columbia, 1971
Freund, Peter Ronald Amesbury, Mass.
B.A., Brown, 1971
Friedman, Bruce Alan Brooklyn, N.Y.
B.A., New York University, 1971
Gambert, Steven Ross Brooklyn, N.Y.
B.A , New York University, 1971
Gang, Eli Shimshon Brooklyn, N.Y.
B.A., Columbia, 1971
Gingrich, Susan Alice New York, N.Y.
B.A., Smith, 1968
Gordon, Gerald Schenectady, N.Y.
B.A., Rochester, 1971
Graham, Jimmy East Point, Ga.
B.A., Emory, 1971
Greenberg, Jonathan Somerset, Mass.
B A., Columbia, 1971
Harris, Brenda Dale New York, N.Y.
B.S., City College (New York), 1971
Harris, Marcia Arlene Cambria Heights, N.Y.
B.S., Pace, 1971
Hartmann, Helen Gellhorn Dobbs Ferry, N.Y.
B.A., Minnesota, 1953
Ph.D., California (Berkeley), 1962
Hazell, Samuel Ethiel Bronx, N.Y.
B.S., City College (New York), 1971
Heisler, Kenneth Avery New York, N.Y.
B.A., Columbia, 1971
Henry, Clarence Bruce Bronx, N.Y.
Hazell, Samuel Ethiel Bronx, N.Y.
B.A., City College (New York), 1971
Hines, Pamela Scott Cambria Heights, N.Y.
Hofbauer, John David Forest Hills, N.Y.
B A., Chicago, 1971
Hopkins, B. Smith Urbana, Ill.
B.A., Williams, 1969
James, Maurice Canton, Miss.
B.S., Tougaloo, 1971
Jensen, Gary Jon Staten Island, N.Y.
B.S., Wagner, 1971
Jimenez, Luis New York, N.Y.
B.A., Columbia, 1971
Johnson, Denis Carlysle Brooklyn, N Y.
B.S., Long Island University, 1971
Johnson, Ronald Erik New York, N.Y.
B.S., Yale, 1962
J.D., Harvard, 1965
Kahn, Max Abraham Burlington, Vt.
B.A., Harvard, 1969
Kohn, Edward Ira Elmont, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Konigsberg, Sheldon Miami, Fla
B.A., Emory, 1971
Konstam, Marvin Amnon Bronx, N.Y.
B.A., Columbia, 1971
Kutscher, Harlan Austin Flushing, N.Y.
B.A., Columbia, 1971
Lenchner, Gregory Steven New York, N.Y.
B.S., City College (New York), 1971
Leung, Lit-King Hong Kong
B.S., McGill, 1971

Lin, Alec — Burma
B.A., Brandeis, 1971

Linday, Linda Anne — New York, N.Y.
B.A., Barnard, 1970

Macko, Michael Bendall — Ardsley, N.Y.
B.A., Princeton, 1971

Manger, Jules Neville — Greenwich, Conn.
B.A., Lafayette, 1971

Maroldo, Thomas Vincent — Bronx, N.Y.
B A., Columbia, 1971

Martin, Jack Lee — New Hyde Park, N.Y.
B.A., Hofstra, 1971

Maxwell, James Thomas — East Rochester, N.Y.
B.S., Georgetown, 1971

McNair, Alfred Earl, Jr. — Collins, Miss.
B.S., Tougaloo, 1971

McNamee, Michael Joseph — Danbury, Conn.
B.S , Fordham, 1971

Merriam, Arnold Edward — Cambridge, Mass.
B.A., Harvard, 1971

Meyers, William Clark — Andover, Mass.
B.A., Harvard, 1971

Michet, Clement John, Jr. — Chicago, Ill.
B.A., Columbia, 1971

Moore, Eric Davidson — Tenafly, N.J.
B.A , Harvard, 1969

Motz, Robin Owen — Teaneck, N.J.
B.A., Columbia, 1959
Ph.D., Columbia, 1965

Naidorf, Kenneth Fredric — Brooklyn, N.Y.
B.A., Michigan, 1971

Okonmah, Chukwudi Samuel — Dayton, Ohio
B.S., Dayton, 1971

Olson, Allan David — Syosset, N.Y.
B.A., Cornell, 1971

Parson, Lawrence Martin — Great Neck, N.Y.
B.A., Columbia, 1971

Patashnik, Stephen Melvin — Los Angeles, Calif.
B.A., California (Los Angeles), 1970

Patel, Daniel Walter — Woodmere, N.Y.
B.A., Reed, 1971

Peraza, Jose Emilio — Ft. Wayne, Ind.
B.A., Brown, 1971

Perez, Alicia — Bronx, N.Y.
B.S., City College (New York), 1971

Perrin, Timothy James — Los Angeles, Calif.
B.A., Yale, 1971

Podell, Ronald Mark — Elizabeth, N.J.
B.A., Amherst, 1971

Prince, Alice Sara — Westfield, N.J.
B.A., Wellesley, 1971

Quinones, Lisandro — Brooklyn, N.Y.
B.S., Pratt Institute, 1971

Ramos, Nancy — Bronx, N.Y.
B.S., City College (New York), 1971

Ratner, Ellise Delphin — New York, N.Y.
B.A , Barnard, 1971

Richter, Alfred Jason — Bronx, N.Y.
B.A., Columbia, 1971

Roberts, Stuart Lee — Manhasset, N.Y.
B.A., Colgate, 1971

Robinson, Raymond Paul — Short Hills, N.J.
B.A., Ripon, 1971

Rose, Eric Allen — Bronx, N.Y.
B.A., Columbia, 1971

Rosenbaum, Robert Leon — Brooklyn, N.Y.
B.S., Columbia, 1970
M.S., Pennsylvania, 1971

Rosenstein, Roger G. — Hillsdale, N.J.
B.A., Columbia, 1971

Rossi, Gwendolyn Christiane — Upper Nyack, N.Y.
B.A., Vassar, 1971

Rothendler, James Adam — Scarsdale, N.Y.
B.A., Amherst, 1970

Roye, David Price — Norman, Okla.
B.A., Oklahoma, 1971

Rubin, David Albert — Teaneck, N.J.
B.A., Brown, 1971

Rubin, Harvey — Brooklyn, N.Y.
B.S., SUNY at Stony Brook, 1969

Rusch, Valerie Williams — New York, N.Y.
B.A., Vassar, 1971

Sang, Delia Nai-Yueh — Jamaica, N.Y.
B.A., Radcliffe, 1971

Sarewitz, Stephen John — So. Orange, N.J.
B.A., Yale, 1971

Savatsky, Gary Joel — Swampscott, Mass.
B.A., Dartmouth, 1971

Schned, Alan Robert — Ocean, N.J.
B.S., Yale, 1971

Schned, Eric Steven — Ocean, N.J.
B.S., Yale, 1971

Sheiman, Ellen Barbara — Fairfield, Conn.
B.A., Rochester, 1971

Solomon, William Barney — Brooklyn, N.Y.
B.A., Pennsylvania, 1970

Spiegelman, Willard Gibbs — Portola Valley, Calif.
B.S., California Institute of Technology, 1963
Ph.D., Stanford, 1970

Spivak, Carl R. — New York, N.Y.
B.A., Amherst, 1971

Stadelnikas, Joseph Robert — Phila., Pa.
B.S., United States Military Academy, 1970

Straube, Barry M. — Mendham, N.J.
B.A., Princeton, 1971

Taylor, Stephen Craig — New York, N.Y.
B.S., City College (New York), 1971

Topilow, Harvey Warren — Hillside, N.J.

Tsapatsaris, Nicholas Peter Lowell, Mass.
B.A., Bowdoin, 1971
Valdes, Michael Edward Alexandria, Va.
B.A., Yale, 1971
Waldron, David Edmund W. Hempstead, N.Y.
B.S., Howard, 1971
Wasserman, Sheldon Marc Yonkers, N.Y.
B.A., Columbia, 1971
Wiesen, Mark Brooklyn, N Y.
B.A., Yeshiva, 1971
Williams, Charles Thomas, III Roslyn, N.Y.
B.A., Hofstra, 1971
Young, Margaret Ruth Princeton, N.J.
B.A., Wellesley, 1971
Zeitler, Kenneth Dale Malden, Mass.
B.A., Columbia, 1971

Class of 1976

Almas, James Patrick Havre, Mont.
B.A., Stanford, 1972
Axtmayer, Alfredo Luis Bayamon, P.R.
B.A., Yale, 1972
Azzi, Raymond Lee Northbrook, Ill.
B.S., MIT, 1972
Barbera, Lisa Gwendolyn Pelham, N.Y.
B.S., Vassar, 1972
Baredes, Soly Brooklyn, N.Y.
B.A., Columbia, 1972
Barnes, Henrietta Nichols Belmont, Mass.
B.A., Radcliffe, 1972
Barnett, Arthur Steven Wheaton, Ill.
B.A., Oberlin, 1972
Benacerraf, Beryl Rica Boston, Mass.
B.A., Barnard, 1971
Blatt, Charles Myron Auburn, Me.
B.A., Harvard, 1972
Bowe, John Andrew Ridgewood, N.J.
B.S., University of Pennsylvania, 1972
Breaux, Barry Ellison Guthrie, Okla.
B.A., University of Kansas, 1971
Bronzo, Richard Lawrence New Hyde Park, N.Y.
B.A., Hofstra, 1972
Brown, Larry Kenneth College Park, Md.
B.S., University of Maryland, 1972
Burke, Allan Martin Yonkers, N.Y.
B.A., Haverford, 1971
Carr, Daniel Barry New York, N.Y.
B.A., Columbia, 1968
Castellano, Thomas John Armonk, N.Y.
B.A., Harvard, 1972
Cerny, Kenneth Rudolph Timonium, Md.
B.A., Cornell, 1972
Chaiken, Barry Glenn Short Hills, N.J.
B.A., Yale, 1972
Chan, Florence Yu Hong Kong
B.S., University of Minnesota, 1972
Charity, Cynthia McClennon New York, N.Y.
B.A., Vanderbilt, 1969
Chin, Jean Marguerite Kingston, Jamaica
B.A., Hollins, 1972
Chyun, Yong-Sung Washington, D.C.
B.A., Case Western Reserve, 1972
Clark, Mary Helen Woodcliffe Lake, N.J.
B.A., Middlbury, 1971
Clark, Michelle Olivette Brooklyn, N.Y.
B.A., Hunter, 1972
Cohn, Kenneth Holland Buffalo, N.Y.
B.A., University of Rochester, 1972
Daniels, Robert Leo Philadelphia, Pa.
B.A., Princeton, 1972
Derenoncourt, Frantz Joseph Brooklyn, N.Y.
B.A., Columbia, 1971
Diller, Lawrence Howard Forest Hills, N.Y.
B.A., Clark, 1972
Drimmer, Eric Jonathan Harrison, N.Y.
B.A., Harvard, 1972
Dunford, James Vincent, Jr. Garden City, N.Y.
B.A., Syracuse, 1972
Eng, Catherine Suffern, N.Y
B.A., Wellesley, 1972
Epstein, Nancy Ellen Old Westbury, N.Y.
B.A., Barnard, 1972
Fazio, Joseph Michael Trumbull, Conn.
B.A., College of the Holy Cross, 1971
Feldman, Edward Samuel Mt. Vernon, N.Y.
B.A , Harvard, 1972
Flowers, Cornelius Collins, Mass.
B.S., University of Southern Missippi, 1972
Forster, Susan Hall Philadelphia, Pa.
B.A., Radcliffe, 1972
Fox, Ira Jacob Omaha, Neb.
B.A., Harvard, 1972
Frasz, David Paul McHenry, Ill.
B.A., Princeton, 1968
Freeman, Linda Nancy Boston, Mass.
B.A., University of Pennsylvania, 1972
Friedman, Emanuel Livingston, N.J.
B.S., Newark College of Engineering, 1972
Fung, Yee Fai Hong Kong
B.S.E., Princeton, 1972
Galst, Jay Martin Milwaukee, Wis.
B.S., University of Wisconsin, 1972

Geller, Edmund Alan Brooklyn, N.Y.
B.A., New York University, 1972
Gilder, David Austin Scarsdale, N.Y.
B.A., Harvard, 1972
Gilhooly, Patricia Eileen West Germany
B.A., Manhattanville, 1972
Ginsberg, Brent William Shawnee Mission, Kansas
B.A., Princeton, 1972
Glaser, Bert Martin Hewitt, N.J.
B.A., New York University, 1971
Glinick, Stephen Ernest Islip, N.Y.
B.A., Bowdoin, 1971
Goldmann, Andrew Milton Buffalo, N.Y.
B.A., Cornell, 1972
Gonzalez, Frederick Andrew Condado, P.R.
B.A., Boston University, 1972
Graham, Toney Lake City, S.C.
B.S., Claflin, 1972
Gregersen, Peter Kim Englewood, N.J.
B.S., Johns Hopkins, 1972
Groopman, Jerome Elliot Little Neck, N.Y.
B.A., Columbia, 1972
Gross, Gary Edward Sausalito, Calif.
B.A., Swarthmore, 1970
Gwirtsman, Harry Edward Springfield, N.J.
B.A., Yale, 1972
Hammill, Hunter Adrian Haworth, N.J.
B.S., Boston College, 1971
Harbison, Madeleine DiuVerre Altus. Okla.
B.A., Wellesley, 1971
Hillsman, Regina Onie Bronx, N.Y.
B.A., Bryn Mawr, 1972
Ho, Esther New York, N.Y.
B.A., Hunter, 1972
Hoppock, John Scarborough, Jr. Wilmette, Ill.
B.A., Princeton, 1968
Horowitz, Pamela Ann New York, N.Y
B.A., Stanford, 1968
Hurwitz, Shepard Raphael New Rochelle, N.Y.
B.A., Columbia, 1972
Ilson, Joyce Bronx, N.Y.
B.S., CCNY, 1972
Israel, Andrew Glenn Beverly Hills, Calif.
B.A., Stanford, 1972
Johnson, Walter Burnett, Jr. Arlington, Va.
B.S., Howard, 1969
Johnston, Charles Eugene, II Los Angeles, Calif.
B.A., Yale, 1971
Kalmanowitz, Stuart Mark Deal, N.J.
B.A., Princeton, 1972
Karp, George Isaac Fair Lawn, N.J.
B.A., Columbia, 1972
Kaunitz, Jonathan Davidson Westport, Conn.
B.A., Columbia, 1972
Kinaszczuk, Tom Milltown, N.J.
B.A., Princeton, 1972
Kleaveland, Joseph Patrick Muskegon, Mich.
B.S., University of Michigan, 1972
Kremberg, Marvin Roy Rockaway Park, N.Y.
B.A., Brooklyn, 1972
Kuchera, James Joseph Paramus, N.J.
B.S., University of Scranton, 1972
Leder, Mary Ellen Brooklyn, N.Y.
B.A., University of Rochester, 1972
Lefkowitch, Jay Harris New York, N.Y.
B.A., Clark, 1972
Leiter, Bruce Edmund Portland, Me.
B.S., Dartmouth, 1972
Lindsey, Ronald Wayne Lakewood, N.J.
B.A., Yale, 1972
Lopyan, Stanley Arnold Flushing, N.Y.
Queens College
Luber, Murray Philip Bala Cynwyd, Pa.
B.A., University of Pennsylvania, 1972
Mandelblatt, Jeanne Susan Flushing, N.Y.
B.A., University of Southern California, 1972
Marcal, Joseph Manuel Hong Kong
B.A., Hamilton, 1972
Marshall, Ernest Walter Louisville, Ky.
B.A., Columbia, 1972
Marshall, Harry Jay, III Madison, Wis.
B.S., MIT, 1969
McDonald, Marguerite Bridget New York, N.Y.
B.A., Manhattanville, 1972
McGuire, Stephen Albert Idaho Falls, Idaho
B.S., University of Idaho, 1970
M.S., Michigan State, 1972
McNally, James William Hamilton, Ohio
B.S., MIT, 1972
Mendoza, Francis Xavier Middletown, Conn.
B.S., Polytechnic Institute of Brooklyn, 1968
M.S., New York University, 1970
Merrell, Woodson Charles Chatham, N.J.
B.A., Amherst, 1971
Mitchell, William Anderson, Jr. Huntington, N.Y.
B.A., Pennsylvania State, 1972
Mount, Philip Maxwell Bronxville, N.Y.
B.A., Oberlin; 1963
M.A., Wake Forest University, 1968
Ph.D. Tulane, University, 1972
Neugut, Alfred I. Brooklyn, N.Y.
B.A., Columbia, 1972
Nieves, Walter Leo Bronx, N.Y.
B.S., CCNY, 1972

Nolan, Brian Thomas Chicago, Ill.
B.S., Yale, 1972
Ogilvie, Orin Howard Salt Lake City, Utah
B.S., University of Utah, 1972
Osborn, Emilie Heffron Sisson Dallas, Pa.
B.A., Radcliffe, 1969
Ostrer, Harry Belmont, Mass.
B.S., MIT, 1972
Packer, Andrew J. Eastchester, N.Y.
B.A., Princeton, 1972
Padron, Sebastian Teobaldo San Juan, P.R.
B.A., Indiana, 1971
Parris, Oneall Eucline Barbados, W.I.
B.S., Yale, 1972
Pate, Perry Glenn Houston, Tex.
B.A., Southern Methodist, 1972
Peters, William Paul Kenmore, N.Y.
B.S., B.S.B.A., Penn State, 1972
Phillips, Malcolm Charles
Valley Stream, N.Y.
B.A., Amherst, 1972
Romagnoli, Mario Frank Bronx, N.Y.
B.S., Fordham, 1972
Rosenberg, Robert Alan Bronx, N.Y.
B.A., Columbia, 1972
Rosenthal, Stephen Martin
W. Hartford, Conn.
B.A., Yale, 1972
Rosenwasser, Melvin Paul Walden, N.Y.
B.A., Johns Hopkins, 1972
Rosner, Saran Saul New Rochelle, N.Y.
B.A., Dartmouth, 1972
Ruderman, Marvin Ira Great Neck, N.Y.
B.A., University of Pennsylvania, 1972
Ruestow, Paul Charles Old Westbury, N.Y.
B.A., Princeton, 1972
Salmon, Jane Eva Fort Lee, N.J.
B.A., New York University, 1972
Sanchez, Guillermo Rafael So. Orange, N.J.
B.S., Seton Hall, 1966
Ph.D., Columbia, 1970
Schechter, Clyde Barry Cambridge, Mass.
B.A., Columbia, 1967
Schiffman, Robert L. Staten Island, N.Y.
B.A., Harvard, 1972
Schneider, Harry David New York, N.Y.
B.A., CCNY, 1966
M.A., Queens, 1971
Ph.D., CCNY, 1972
Schnur, Michael Jeffrey Queens, N.Y.
B.A. New York University, 1972
Schoen, Robert Taylor Bronxville, N.Y.
B.A., Harvard, 1972
Schoendorf, Virginia Lee No. Merrick, N.Y.
B.A., Hofstra, 1972
Schultz, Robert Walter Hicksville, N.Y.
B.S., Notre Dame, 1972
Shen, Lilian Wah-Ying Berkeley, Calif.
B.A., University of California—
Berkeley, 1972
Shoji, Elaine Carole Gardena, Calif.
B.S., University of California—
Irvine, 1972
Silverman, David Alan New York, N.Y.
B.A., Columbia, 1972
Steinberger, Alfred Abe New York, N.Y.
B.S., CCNY, 1972
Sternschein, Michael Jon New York, N.Y.
B.A., Oberlin, 1970
Struchin, Steven Andrew
New Rochelle, N.Y.
B.A., Yale, 1972
Talon, Neil Stuart Southfield, Mich.
B.A., University of Michigan, 1972
Tam, Yong-Yong Brooklyn, N.Y.
B.S., MIT, 1972
Taylor, Howard Passaic, N.J.
B.S., Hobart, 1972
Turner, Robert Pearson Longmeadow, Mass.
B.A., Princeton, 1972
Unger, Stephen Wise Miami Beach, Fla.
B.A., Columbia, 1972
Ursell, Philip Christman Chevy Chase, Md.
B.A., Haverford, 1972
Van der Heide, Douglas John
Berkeley, Calif.
B.A., University of California—
Berkeley, 1972
Vazquez, Raphael Luis Bronx, N.Y.
B.S., CCNY, 1965
Vernon, Mary Emma Louise
Campobello, S.C.
B.S., South Carolina State, 1972
Veteran, Frank Anthony Tarrytown, N.Y.
B.A., Harvard, 1972
Welch, Elizabeth Ann Rye, N.Y.
B.A., New York University, 1972
Wilets, Greg Allen Chevy Chase, Md.
B.A., University of Wisconsin, 1972
Wilkinson, Dorothy Veronica Bronx, N.Y.
B.A., New York University, 1972
Wong, Kamehameha Kai-Min, Jr.
Timonium, Md.
B.A., Johns Hopkins, 1972
Wood, John Chase Yardley, Pa.
B.A., Columbia, 1972
Woodriffe, Phillipa Gloria Laurelton, N.Y.
B.S., Molloy, 1972
Yaremchuk, Michael John Detroit, Mich.
B.A., Yale, 1972
Yergan, John Williston Park, N.Y.
B.A., Columbia, 1972
Zoltick, Jerel Mark Trenton, N.J.
B.A., Princeton, 1972

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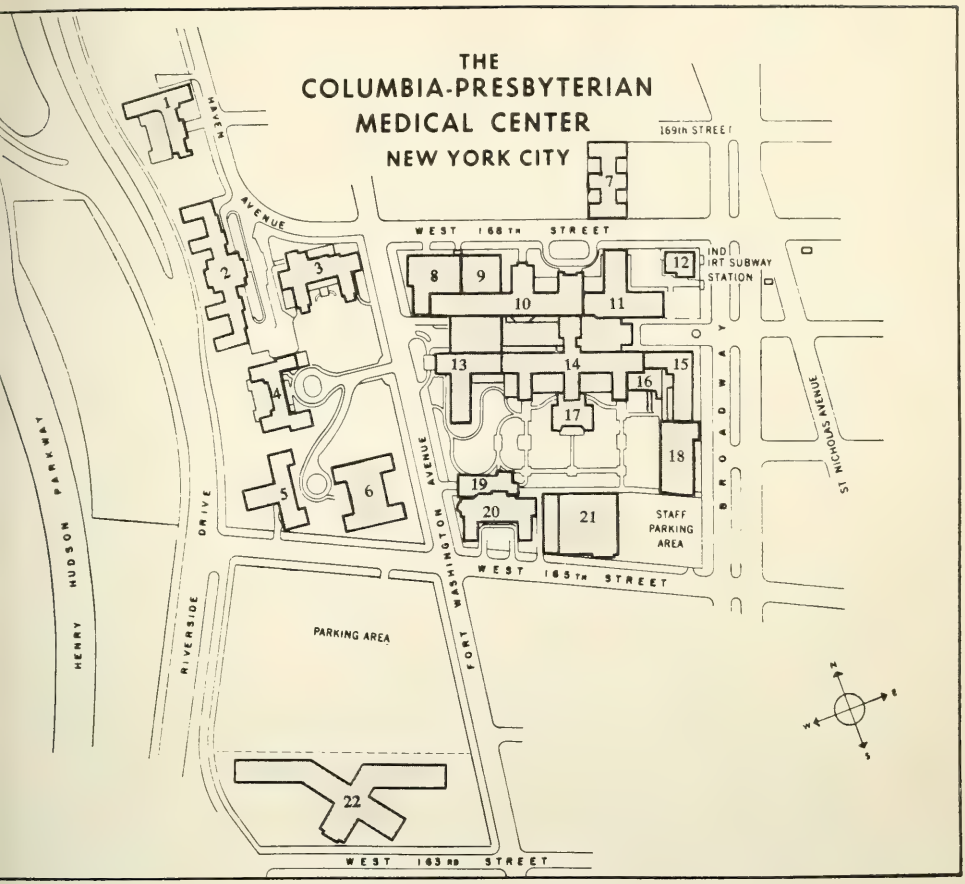

1. BARD HALL
2. N.Y. STATE PSYCHIATRIC INSTITUTE
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3. NEUROLOGICAL INSTITUTE OF NEW YORK
4. MAXWELL HALL
5. HARKNESS MEMORIAL HALL
6. DANA W. ATCHLEY PAVILION
7. GEORGIAN NURSES RESIDENCE
8. WILLIAM BLACK MEDICAL RESEARCH BUILDING
9. ALUMNI AUDITORIUM
10. COLLEGE OF PHYSICIANS & SURGEONS
11. VANDERBILT CLINIC
    SCHOOL OF DENTAL AND ORAL SURGERY
12. DEPARTMENT OF HEALTH
    SCHOOL OF PUBLIC HEALTH
    WASHINGTON HEIGHTS HEALTH CENTER, N.Y.C.
13. HARKNESS PAVILION
14. PRESBYTERIAN HOSPITAL
    N.Y. ORTHOPEDIC HOSPITAL
    SLOANE HOSPITAL
    SQUIER UROLOGICAL CLINIC
15. BABIES HOSPITAL
16. RADIOTHERAPY CENTER
17. PAULINE A. HARTFORD MEMORIAL CHAPEL
18. BABIES HOSPITAL RESEARCH, TEACHING, AND OFFICE ADDITION
19. INSTITUTE OF OPHTHALMOLOGY ADDITION
20. INSTITUTE OF OPHTHALMOLOGY
21. CENTRAL SERVICE BUILDING
22. FRANCIS DELAFIELD HOSPITAL, N.Y.C.

To Reach the Medical Center: By subway, the Washington Heights Express of the IND Eighth Avenue or the Van Cortlandt Park train of the IRT Seventh Avenue. By bus, Fifth Avenue Bus #4 or #5. By car, the Westside Highway exit at the George Washington Bridge. Parking facilities are available at West 164th Street and Fort Washington Avenue.

To Columbia Students

THIS BULLETIN IS FOR YOUR USE AS A SOURCE OF CONTINUING REFERENCE. PLEASE SAVE IT. REPLACEMENT COPIES CAUSE EXPENDITURES WHICH SHOULD MORE DIRECTLY SERVE YOUR EDUCATION.

Columbia University Bulletin

THE FACULTY OF MEDICINE

College of Physicians & Surgeons

1973–1974

Inquiries

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Office of Financial Aid: (Area code 212) 579–4100

Other bulletins of the Faculty of Medicine:

Human Nutrition
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Physical Therapy and Occupational Therapy
Postgraduate Courses in Clinical Medicine
Psychoanalytic Clinic for Training and Research
Public Health and Administrative Medicine

The Faculty of Medicine of Columbia University

College of Physicians & Surgeons

1973-1974

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See "Attendance" on pages 25-26 of this bulletin for a statement of University policy on absence for the observance of religious holidays.

July	**2**	**Monday. Academic year begins for third- and fourth-year students.**
	4	**Wednesday. Independence Day. Holiday for third- and fourth-year students.**
	5–7	Thursday–Saturday. Registration, including payment of fees, for third- and fourth-year students.
Aug	**1**	Wednesday. Last day to apply or reapply for all degrees and certificates to be conferred in October. Students who apply after this date must pay a late fee.
	31	**Friday, through September 3, Monday. Labor Day vacation for third-year students.**
Sept	**6–8**	Thursday–Saturday. Registration for first- and second-year students.
	10	**Monday. Academic year begins for first- and second-year students.**
Oct	**24**	Wednesday. Award of October degrees and certificates.
Nov	**6**	**Tuesday. Election Day. Holiday for first- and second-year students.**
	12–16	Monday–Friday. Examination period for first-year students.
	22–23	**Thursday–Friday. Thanksgiving holidays for third-year students.**
	22–24	**Thursday–Saturday. Thanksgiving holidays for first- and second-year students.**
Dec	**3**	Monday. Last day to apply or reapply for all degrees and certificates to be awarded in February. Students who apply after this date must pay a late fee.
	15	**Saturday, through January 2, 1974, Wednesday. Christmas holidays for first-year students.**
	20	**Thursday, through January 2, 1974, Wednesday. Christmas holidays for second-year students.**
	22	**Saturday, through January 2, 1974, Wednesday. Christmas holidays for third-year students.**

Feb	**11–15**	Monday–Friday. Examination period for first-year students. First semester ends for first-year students.
	13	Wednesday. Award of February degrees and certificates.
	16–24	**Saturday–Sunday. Vacation for first-year students.**
	18	Monday. Last day to apply or reapply for May degrees and certificates (see April 9).
	18	**Monday. Washington's Birthday. Holiday for second-year students.**
	19–22	Tuesday–Friday. Final examination period for second-year students. Semester ends for second-year students.
	23	**Saturday, through March 10, Sunday. Vacation for second-year students.**
	25	Monday. Second semester begins for first-year students.
Mar	**4**	Monday. Elective curriculum begins for third-year students.
	11	Monday. Major Clinical Year begins for second-year students.
Apr	**6–11**	**Saturday–Sunday. Easter holidays for first-year students.**
	9	Tuesday. Last day to file *late* application or renewal of application for May degrees and certificates. Applications received after this date will automatically be applied to the next conferral date.
May	**15**	**Wednesday. Conferring of degrees.**
	27	**Monday. Memorial Day. Holiday for all students.**
June	**1–16**	**Saturday–Sunday. Vacation for second-year students.**
	10–14	Monday–Friday. Final examination period for first-year students. Second semester ends.

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Bard Haven Towers

View of Bard Hall from Riverside Drive

Columbia-Presbyterian Medical Center

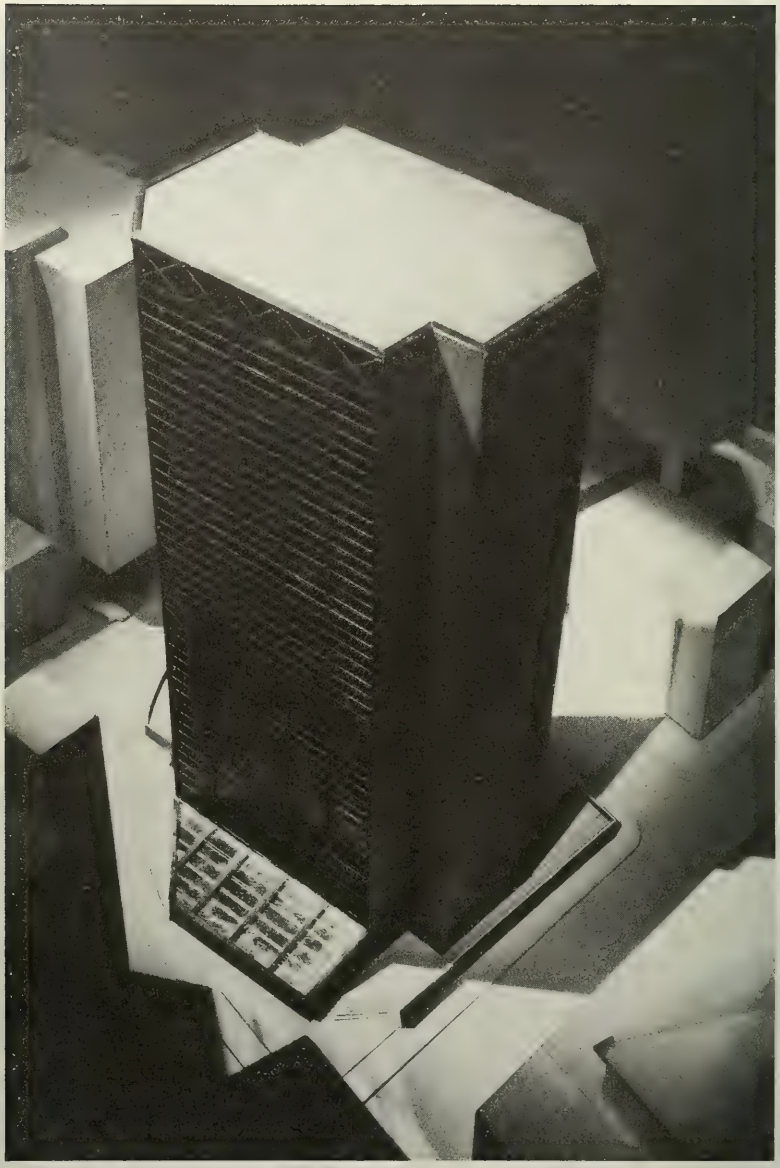
Martin Luther King, Jr., Pavilion, Harlem Hospital Center

St. Luke's Hospital Center

Roosevelt Hospital

Mary Imogene Bassett Hospital

The Francis Delafield Hospital



Model of the Augustus Long Library—Health Sciences Center
(now under construction)

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an in-

tegral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the Department of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue.

MEDICAL LIBRARY

The Medical Library occupies parts of the three lower floors of the College building. It provides current literature (both books and journals) for faculty members and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately three hundred eighteen thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than forty-five hundred periodicals are received regularly. A professional library staff under the direction of C. Lee Jones, M.A., Medical Librarian, is available to aid students, faculty members, and research workers in the schools and hospitals of the Medical Center.

A new medical library is being constructed which will house the print collections and provide ready access to the full range of nonprint media. This new facility will be part of the Augustus Long Library–Health Sciences Center, a twenty-story teaching and research center to be erected diagonally opposite the William Black Medical Research Building.

The libraries on the Morningside campus, which contain over four million volumes, are open to all students. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library,

while special and departmental collections are located in various other buildings on the campus.

The Medical Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital, enabling the consolidation of all the laboratories of the Institute in one building. These laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INSTITUTE OF HUMAN NUTRITION

The Institute of Nutrition Sciences was established in 1958 in the School of Public Health and Administrative Medicine (renamed the School of Public Health in 1972). The Institute has served as a graduate center to train individuals who would help meet the world-wide need to combat malnutrition. Between 1958 and 1972, 230 degrees were granted, 80 percent of them to foreign students representing forty-six countries. In addition, twenty-five postdoctoral fellows and approximately one hundred special students, mostly from abroad, received extensive training in clinical and public health nutrition.

In 1970 the name of the Institute was changed to the Institute of Human Nutrition, and in 1971 the administration was transferred from the School of Public Health to the Postgraduate Education Division of the Faculty of Medicine with the aim of developing research programs in human nutrition and expanding the teaching role of the Institute to encompass medical students and physicians.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. Several divisions of the Institute are now operating: (1) reproductive endocrinology, (2) reproductive biochemistry, (3) germ-cell physiology and development, (4) reproductive morphology, (5) family life services, (6) biomathematics and demography, and (7) program development and evaluation.

The office of the Director of the International Institute for the Study of Human

Reproduction is on the main floor of the Bard-Haven Apartments, 78 Haven Avenue.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

BARD HAVEN TOWERS

The Bard Haven Towers consist of three thirty-one-story apartment towers for married students, faculty members, and staff of Columbia University and affiliated institutions. The Towers are located between 169th and 171st streets on the west side of Haven Avenue overlooking Riverside Drive and the Hudson River.

► AFFILIATED HOSPITALS

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,504 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their thirteenth birthday, and care for premature babies. The total capacity of the hospital is 165. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a total capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 318 adult private patients.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of nervous diseases, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary

and Hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 122 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building and one floor in Harkness Pavilion. There are 187 beds, of which 124 are ward beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of the Presbyterian Hospital.

HARLEM HOSPITAL CENTER

Harlem Hospital Center, founded in 1887, is a general hospital of nearly eleven hundred beds serving Central Harlem and environs, responsible for the care of approximately four hundred thousand people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

ST. LUKE'S HOSPITAL

St. Luke's Hospital Center was established in 1850 and has been located on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center which contains 773 beds, including 53 pediatric beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than ninety thousand visits a year and the various clinics almost one hundred seventy thousand visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

THE ROOSEVELT HOSPITAL

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about two hundred sixty-three thousand outpatient and

emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

FRANCIS DELAFIELD HOSPITAL

The nearby Francis Delafield Hospital is a 250-bed limited general hospital owned and operated by the City of New York through the Health and Hospitals Corporation. The College of Physicians and Surgeons contracts with the Health and Hospitals Corporation to provide professional staff and services in this hospital. Opportunities for education and training of medical students, nurses, paramedical personnel, house staff, and fellows are provided on the wards, in the clinics, and in the laboratories. The Institute of Cancer Research is attached to this hospital.

NEW YORK STATE PSYCHIATRIC INSTITUTE

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

THE MARY IMOGENE BASSETT HOSPITAL

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 183 beds and a full-time staff of specialists. In 1972 the staff saw 92,000 patients on an outpatient basis. A close liaison between the community medical resources and the hospital staff creates a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. Since 1947 the hospital has had a formal affiliation with Columbia, and each year approximately forty students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions. All applicants receive consideration for admission without regard to race, creed, color, national origin, or sex.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Additional background in advanced mathematics, genetics, and embryology will be useful but is not required. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Admissions Office of the Faculty of Medicine. Applications are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores if this test has been taken. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of 147 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to consider alternatives and make decisions, and has developed a desire for a continuous program of self-education. In the selection of students, preference is given to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

ADMISSION TO ADVANCED STANDING

Only a very small number of vacancies, at most, occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine in the United States or Canada to the upper classes of the College should communicate with the Admissions Office to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere but, in the past, the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been unable to evaluate the credentials of such applicants. As a result, the Committee has been able to admit relatively few individuals either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

► REGISTRATION

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. At registration a student provides the information required and pays his tuition and fees. The Office of the Registrar, on the third floor of the College building, is normally open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Those who do not now have a number should obtain one from their local Social Security office well in advance of registration.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

Each entering student is expected to read the University Rules of Conduct. Disciplinary matters not covered by the University Rules fall within the province of Dean's discipline. Academic and intellectual integrity, accepted principles in the medical profession, are expected of all students.

ATTENDANCE

Students are held accountable for absences incurred owing to late enrollment.

Any student whose religious duties conflict at any time with academic requirements should apply to the appropriate departmental representative for an equitable solution. It is the policy of the University to respect its members' observance of major religious holidays. Those responsible for the scheduling of the required academic activities or essential services have been asked to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence due to religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the parties concerned, students and instructors should consult a religious counselor or the office of the appropriate dean or director.

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 3–412) during the change-of-program period. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

Elementary language courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

TUITION

For the full course in medicine for one academic year (or equivalent), payable in two installments	$3,180.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$150.00

STUDENT HEALTH AND HOSPITALIZATION INSURANCE FEE

For all students, per academic year (see pages 27-28)	$103.00

APPLICATION FEES AND LATE FEES

For admission	$20.00
For each special examination	10.00
For renewal of application for a degree	1.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

PAYMENT OF FEES

Tuition is payable each term in advance and as part of registration. If this fee is paid after the last day of registration, a late fee of $10 will be imposed. Checks for tuition and fees should be drawn to the order of Columbia University.

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Dean. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospitalization insurance fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

STUDENT HEALTH SERVICE

Daily office hours for students are held by the Student Health Service in Room 2005A, Black Building. The student health fee paid at registration is applied by

the College to the cost of operating the Student Health Service. The hospitalization insurance fee is used to pay the annual premium of the Associated Hospital Service of New York. Students who require hospitalization are covered by their hospitalization insurance policy for admission to the Columbia-Presbyterian Medical Center or another hospital.

APPLICATION, OR RENEWAL OF APPLICATION, FOR A DEGREE

A candidate for the M.D. or Med.Sc.D. degree must file application for the degree by March 1 of the year in which he expects the degree to be awarded. Announcement of the date and procedure is posted on the bulletin boards each spring. If the degree is not earned as expected, the application may be renewed the following year for a fee of $1. The M.D. and Med.Sc.D. degrees are awarded in May; the Ph.D. degree is awarded whenever the candidate completes the requirements.

► ESTIMATED EXPENSES

The approximate current costs for a single student attending the College during the *first academic year* are as follows:

Tuition and fees	$3,283.00
Room in Bard Hall (average cost; see page 41)	850.00
Board at Bard Hall	675.00
Books and supplies	300.00
Microscope (average cost)	590.00

In addition, each student should budget approximately $800 for clothing, laundry, dry cleaning, travel, recreation, and sundries, and approximately $725 for meals on weekends and holidays, when the Bard Hall dining room is closed.

There are some variations in costs for other years of the curriculum, accounted for by differences in the length of the academic year and in the student's need for books and equipment, costs of transportation to the affiliated hospitals, and food and living expenses if the student no longer resides in Bard Hall. Each year a Financial Aid Committee, composed of faculty and students, prepares a statement of estimated expenses for single and married students for each year of the medical school curriculum. These statements are available annually to all students.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt illuminator also acceptable); all in carrying case.

Minimum microscope requirements are: monocular microscope with 10x eyepiece; triple nosepiece; 10x, 45x, and 100x oil-immersion objectives; mechanical stage ungraduated; Abbe condenser; attached substage 100 volt lamp; carrying case.

The cost of a suitable reconditioned microscope varies from $300 to $600 depending on the age, make, and model.

Students are required to secure the usual instruments needed for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► FINANCIAL AID

Financial aid programs are administered without regard to race, creed, color, national origin, or sex.

The College of Physicians and Surgeons financial aid programs, which are based primarily on demonstrated need, take the form of *scholarships, fellowships,* and *loans,* as described below. Such funds are intended to *supplement,* rather than substitute for, the student's own resources, including those of his parents. In addition, certain *prizes* are awarded regularly (*vide infra*).

Most recipients of financial aid are given both scholarships and loans. The amount of a scholarship award depends on the total scholarship monies available and the total number of students eligible for aid.

Scholarships, fellowships, and loans are usually awarded for one academic year at a time. Fellowships may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award.

New students who are in need of financial assistance should at their earliest opportunity complete the financial aid application sent with notices of admission to the College. No award notices should be expected before the fourth week in June. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 579–4100.

Spouses of medical students seeking employment at the Medical Center should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital.

SCHOLARSHIPS

When federal funding permits, the Health Professions Scholarship Program, administered by the Bureau of Health Manpower of the National Institutes of Health, provides up to $3,500 a year to extremely needy students who have been accepted for admission and are American citizens, or who hold permanent resident status and intend to become U.S. citizens. Further information regarding this program is provided with notices of admission to the College of Physicians and Surgeons.

Students are urged to determine the availability of scholarship assistance from the states in which they reside, and to make application for such funds when appropriate. As an example, New York State provides funds through the Scholar Incentive and Regents awards to its qualified permanent residents. In addition, New

York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state.

Among nongovernmental sources of funding, there is the National Medical Fellowships, Inc., which awards fellowships to needy Black American, American Indian, Mexican-American, and mainland Puerto Rican men and women who have been accepted by or are already attending a medical school in the United States. An applicant must be an American citizen or have filed a Declaration of Intent to become one. Awards are given primarily to first- and second-year students, but there are occasional exceptions. Candidates for NMF awards, if already in medical school, should apply to the NMF at 3935 Elm Street, Downers Grove, Illinois 60515, before March 1 for second-year support. Other students should request an application form from the NMF at the time of submitting applications to medical schools. Upon acceptance by a medical school, the student should submit the completed NMF application.

There are also a number of University sources of scholarship funds. These include the following named scholarships, donated by alumni, foundations, corporations, and friends of the University:

Allen. Awarded annually to men who are unable to pay their own way for medical training. Gift of Mrs. Vivian B. Allen.

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the medical school. From the Banbury Scholarship Fund.

Bernheim, Alice Ida and Abraham Penner Scholarship Fund (1972). The income for the payment of tuition for a medical student each year.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship awarded every four years to one student. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1913. Awarded for medical student scholarships.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1928. Given at their tenth reunion.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship.

Class of 1934. Awarded for medical student scholarships.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1937. Awarded for tuition of medical students.

Class of 1938. Awarded annually to assist a Physicians and Surgeons student.

Class of 1939. Awarded for medical student scholarships.

Class of 1940. Awarded for medical student scholarships.

Class of 1942. Awarded for medical student scholarships.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Delacorte, George T. Awarded annually. Given by Mr. George T. Delacorte.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M.

Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Durante, Lawrence John. Awarded for medical student scholarships. Given by members of his class, Physicians and Surgeons 1961, in his memory.

Eglee, Edward Percy (1972). Awarded annually for medical student scholarships. Bequest of Edward Percy Eglee, Class of 1913. Member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a Clinical Professor of Medicine and Visiting Physician, Tuberculosis Service, Bellevue Hospital.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

Foster, Joseph C. (1973). To be awarded annually for the benefit of deserving medical students. Given by Mrs. Esther J. Foster, in memory of her husband.

Frantz, Virginia Kneeland. Awarded annually. Bequest of Dr. Frantz. Established in 1967.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Goetz, Norman. Awarded every three or four years to a student entering medical school who is considered the most deserving applicant on the basis of academic excellence as an undergraduate. Given by Mrs. Beatrice J. Goetz in honor of Dr. Frederick King, Class of 1929, in appreciation for his devoted attention to her husband, Norman Goetz.

Harsen, Jacob (1859). Five; awarded annually. Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Hirschl, Ira T., Scholarships (1972). From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

Hoyt Foundation. To be used for student research aid in one of the basic sciences for the encouragement of students seeking a career in teaching and research. Given by the Hoyt Foundation.

Huber, Francis. Awarded annually. Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Iklé, Charles F., Scholarship and Research Fund. Awarded annually to deserving medical students. Grant by the New York Community Trust.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

Jeal, Edward R. Awarded to deserving students studying under the Faculty of Medicine.

Johnson, Robert Wood, Foundation (1972). Can be awarded annually until 1976. Limited to women students, students from rural areas, and students from the Black, Indian, Mexican-American, and mainland Puerto Rican populations of the United States.

Lee, James T., Foundation, Inc. Awarded annually to medical students.

Lieb, Charles Christian. Awarded with preference given to an American, a worthy student, interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

Li Ming. Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

McCullough, Elizabeth Hall. Awarded to one or more worthy medical students. Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullough, an alumna of the College of Physicians and Surgeons.

Macy, Josiah, Jr., Foundation. For student research aid and special study projects in the field of human reproduction.

Manley, Herbert D. (1971). Awarded to assist worthy students in the College. Given as bequest by the late Dr. Herbert D. Manley.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Maze, M. Montgomery (1971). From the estate of M. Montgomery Maze, Pearl River, Town of Orangetown, County of Rockland and State of New York. Part of this Fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School, Pearl River, New York.

Mead, Mabel C. Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

Moritz, Samuel J., Memorial. Awarded to medical students in the College. Gift of the executors of the estate of Samuel J. Moritz.

P&S Scholarship Aid and Loan Fund (1971). Established by the wives of the members of the Faculty of Medicine. Awarded to needy students of medicine.

Pfeiffer, Rudolph and Mary E. Awarded to assist one or more deserving and needy students of medicine. Given by Mrs. Mary E. Pfeiffer.

Presbyterian Hospital Alumni Scholarship (1957). Granted annually to a student, with preference given to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

Rhodebeck, Richard. Awarded to American-born medical students who are in need of financial assistance. Four full scholarships annually. Given in memory of her husband by Mrs. Richard Rhodebeck.

Rudin, Louis & Rachel. Established in 1970 by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the medical school.

Sagamore. Awarded to needy students enrolled in the College of Physicians and Surgeons to earn the degree of Doctor of Medicine.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Saxe, the Mary S., Scholarship Fund (1973). Bequest of Mary S. Saxe. To be used each year toward the tuition of a deserving student in the College of Physicians and Surgeons, as selected annually by the Dean.

Severinghaus, Aura E. (1961). Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Smith, Bernard E., Memorial (1967). Awarded annually for a medical student scholarship. Given by Mrs. Gertrude Smith, in memory of her husband.

Steinhardt Medical Scholarship (1971). Bequest of Samuel C. Steinhardt. For tuition and books ($100 for the latter expense category). Awarded as funds permit to medical students who have graduated from one of the colleges of the City University of New York and who have attended public schools exclusively (except for religious instruction). To be repaid fifteen years from the date of receipt: without interest for the first ten years, but with 5 percent annual interest thereafter on the unpaid balance.

Stevenson, the James A., Memorial Scholarship (1972). For undergraduate medical students. Established by Mrs. Ann Stevenson Hardesty, in memory of her brother, James Albert Stevenson, Class of 1943.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Stolfi, Julius E., Medical Educational and Research Fund Scholarship (1972). Awarded annually to an undergraduate medical student.

Stout, Arthur Purdy, Memorial. Awarded annually. Given by the Arthur Purdy Stout Society.

Strumdorf, Arnold. Awarded to one or more worthy students in their third and fourth years of medical school. Bequest of Miriam Strumdorf.

Vaughan, Harold S. Awarded to students of high character and scholastic ability. Bequest of Dr. Harold Vaughan, Class of 1904.

Vicale, Andrea, Memorial. Awarded to provide tuition and other financial assistance for deserving students in the College of Physicians and Surgeons. Established in memory of his father by Dr. Carmine T. Vicale.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Whiting—Dr. Fordyce B. St. John—Scholarship Fund (1972). To be awarded, as authorized by the Dean, to deserving students who are in need of financial assistance. Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

Zohrab, Clara and Krikor. Awarded annually to students of the University who meet high academic standards and qualify for financial aid, with preference given to students of Armenian extraction.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster. Open to women graduate students for work in gynecology.

Beekman, Gerard. Awarded annually for advanced work in medicine. Given by the Beekman Family Association.

Du Bois, Abram. Awarded annually. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W., Fellowships. Awarded annually to graduate students who are residents of the State of Vermont or who have been graduated from a Vermont college or university. A bequest of George W. Ellis.

Felsen, Morris. Awarded for investigative work in the field of infectious diarrhea. Bequest of Joseph Felsen.

Gay, Frederick Parker, Memorial. Awarded annually. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Haviland, Theodore. Awarded to a physician for research projects or studies in the nature and cause of infectious diseases affecting infants and children.

Herrick, William Worthington. Given in honor of William Worthington Herrick, M.D. Awarded in medicine, preferably to those interested in the medical problems of pregnancy.

Hollingsworth, Leta Stetter, Fellowship (1944). Awarded annually to women who are graduates of the University of Nebraska, with preference given to those who were born in Nebraska or received their earlier education there. Holders are eligible for reappointment for one year. A gift of Harry L. Hollingsworth, in memory of his wife.

Holt, L. Emmett. Awarded annually. Open to a student of the graduating class of any medical school or to a graduate of not more than six years' standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Knapp Memorial. Awarded for research in ophthalmology on nomination by the Knapp Foundation Committee.

Koplik Children's Scholarship. Awarded every other year. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Meierhof, Edward. Awarded to a number of properly accredited graduates in medicine to receive instruction in applied anatomy and surgical technique and other surgical training.

Proudfit, Maria McLean. Awarded every four years. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)'92. Next award: 1973–1974.

Romaine, DeWitt C. For medical research in the College. Given by the estate of C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Mrs. Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded to a graduate of the College to do graduate work in obstetrics. Given by Mrs. Ervin Alden Tucker.

Webster, Edward C. Awarded for research in endocrinology or an allied field.

LOANS

Loans are available to all needy full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below. In all cases, the amount loaned is based on the applicant's demonstration of need for additional funds to meet educational and living expenses. Students who foresee the need to apply loan funds toward the costs of their medical education are urged to consult with the Financial Aid Officer of the College of Physicians and Surgeons well in advance of registration.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers for their loans who are citizens or permanent residents of the United States but not University employees or members of the applicant's immediate family (i.e., mother, father, siblings). Foreign students may borrow from federal or state loan funds upon being granted permanent resident status in the United States.

Federal Loans. Health Professions Loans are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student during a nine-month academic year is $3,500. Over a twelve-month year a student may borrow as much as $4,667. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 3 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* for up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during periods of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state which has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (See "Loan Repayment or Cancellation for Professional Practice," below.) (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, insurance companies, and eligible schools. The maximum loan each academic year under this program is $2,500, and the total outstanding loan balance at any one time may not exceed $10,000. Interest may not be in excess of an annual percentage rate of 7 percent, and in some circumstances may be smaller; lending institutions participating in this program can provide further information regarding interest rates. Repayment begins nine to twelve months after the student's studies have been completed or otherwise terminated, and is scheduled for completion within five to ten years. The minimum monthly payment is $30.

Deferment of repayment is permitted for up to three years during the student's service in the military, the Peace Corps, or Volunteers in Service to America (VISTA).

Comparable loans are insured by a number of states.

Other Sources of Loans. Student Life Funding loans are available through the school. These loans are guaranteed by the United Student Aid Fund, Inc., and given by Student Life Funding, Inc., a subsidiary of the Equitable Life Assurance Society of the United States. Medical students may borrow up to $3,500 a year from this source. Repayment begins after termination of schooling and may extend over a ten-year period. The minimum monthly payment is $50. The interest rate may vary from time to time with the cost of money and will include an endorsement fee of .5 percent to the United Student Aid Fund. For the school year ending in June 1973, the rate was 7.5 percent. This was well below the interest rate charged by financial institutions for long-term installment repayment loans to individuals. Ample notice of change of interest rate will be given in advance of the beginning of a new school year. Interest will be billed annually. These loans are administered by the College and are intended to be used when other sources of loans have been exhausted.

University loans are also intended to supplement students' resources and are made annually. Repayment of these loans is scheduled to begin nine months after graduation and to be completed within ten years (provided that a repayment rate of at least $15 a month is maintained). The interest charge for University loans is 3 percent a year of the outstanding loan balance.

The University has certain named loan funds from which medical students may borrow when monies are available. Included among these are the following funds:

Amazon, Peter. Bequest of Peter Amazon.

Blumenthal, George, Jr. (1916). Used for the assistance of needy students in the medical school.

Class of 1906. Gifts from various members of the Class of 1906.

Class of 1919 (1944). Gifts from various members of the Class of 1919. To be used for interest-free loans to deserving students.

Gardner, Carol Elissa. Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

Greene, David (1970). A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

Hawkins, George L., Jr. Gift of George L. Hawkins, Jr., Class of 1941.

Steinhardt, Samuel C. See Steinhardt Medical Scholarship, under *Scholarships,* above.

In addition to the foregoing, periodically there may be funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Loan Repayment or Cancellation for Professional Practice. The Comprehensive Health Manpower Training Act of 1971 provides that if a physician obtained a Health Professions Student Loan or *any other educational loan* for the costs of education at a school of medicine and enters into an agreement with the Secretary of Health, Education, and Welfare to practice for a period of at least two years in an area in a state designated by the Secretary (after consultation with the appropriate state health authority) to have a shortage of, and need for, persons trained in medicine, the Secretary will repay a portion of the educational loans which are outstanding on the date a physician begins practice under the agreement, as follows: (1) Upon completion of the first year of the practice as specified in the agreement, 30 percent of the principal and interest of each such loan which is outstanding on the date the physician begins such practice will be repaid. (2) Upon completion of the second year of such practice, another 30 percent of the principal and interest of each such loan will be repaid. (3) Upon completion of a third year of such practice, an additional 25 percent of the principal and interest of each such loan will be repaid. Should the physician enter into such an agreement with the Secretary and fail

to fulfill the provisions of the agreement, he or she is liable to reimburse the Secretary for any payments which have been made by the government.

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Altman, Dr. Harry S., Prize (1973). To be awarded to an outstanding student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarships in pediatrics.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year.

Cock, Thomas F., M.D., Prize. Awarded to the student in the College who submits the best thesis on puerperal fever. Given by bequest of Augustus C. Chapin.

Gay, Frederick Parker, Memorial Award (1948). Awarded to a student doing outstanding work in microbiology who is chosen by the chairman of the Department of Microbiology and the Dean of the Faculty of Medicine. Given by Mrs. Frederick Parker Gay, in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College who, in the opinion of the Faculty, has ranked highest in efficiency and ability. Given by bequest of Matilda S. J. Wisner.

Meierhof, Dr. Harold Lee, Prize. Awarded by the Professor of Pathology to the student who, in his opinion, has done the best work in the field for the current year. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Ryan, Ann, Prize in Biochemistry (1973). To be awarded to deserving female graduate students.

Sciarra, Helen M., Prize. Awarded to the fourth-year student who has done the best work in neurology.

Smith, Joseph Mather, Prize. Awarded to the graduate of the College whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious.

Stevelman, Dr. Harold, Award (1973). Given to a student who has shown particular interest in, and dedication to, community health. In honor of Dr. Harold

Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

Stevens Triennial Prize. Awarded triennially to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

Urology Prize. Awarded to the undergraduate student who submits the best essay on a urological subject during the school year.

Watson, Dr. William Perry, Foundation in Pediatrics Prize (1921). Awarded to a member of the graduating class who has been in attendance for at least two years and who has shown the most efficient work in the study of the diseases of infants and children during the regular course at the College.

Watson, Dr. William Rayner, Award. Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential for exemplifying the humanitarian spirit in the art and practice of medicine, as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

► HOUSING

Room rates at Bard Hall depend on the length of the academic year; thus, first-year students pay $850, on the average, for a forty-week contract, and third-year students, $1,020, on the average, for a fifty-two-week contract. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan. The present rate is $675 for the first academic year, excluding the Christmas and Easter holiday periods. The current rate for second-year students is $525. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates are provided to entering students by the Admissions Office. For further information, write to the Bard Hall Office, 60 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Towers on the Medical Center campus. For information, please write to the Office of University Housing, 400 West 119th Street, New York, N.Y. 10027.

► STUDENT AND ALUMNI ACTIVITIES

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club, founded some eighty years ago by James R. Mott, who later won the Nobel Peace Prize, has a rich tradition of service to students and others. In 1917 the Club raised money for the purchase of a steam launch. Two Club members delivered this vessel to Sir William Grenfell, the famed Labrador physician. The boat was used to bring medical services to Eskimo and Indian fishermen on isolated islands along the Labrador coast. In subsequent summers P&S seniors continued to participate in this project.

In the 1950s and 1960s the Club collected textbooks for foreign medical schools. The MERCY Project, initiated in 1969, brought medical aid to more than a thousand children flown from the Biafran-Nigerian war zone.

Every matriculated student of the College of Physicians and Surgeons is, *ipso facto,* a member of the P&S Club and is invited to participate in the activities of his choice. Under the guidance of the Club's Faculty Board of Advisers, students assume full responsibility for managing its affairs. The student cabinet, the Club's governing body, includes one elected member from each class and project chairmen who organize such activities as Orientation Week, Community Youth Work, the Columbia-Presbyterian Medical Society, plays, an arts festival, social get-togethers, movies, the Medical History Society, athletics, and visits to the homes of faculty members. In recent years the Club has also sponsored conferences on such subjects as medicine and religion and medicine and law.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was first organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

All graduates of the College of Physicians and Surgeons are *ipso facto* members of the Alumni Association of the College. The office of the Alumni Association is located at 630 West 168th Street, New York, N.Y. 10032.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses, with frequent correlation clinics to help relate basic science material to medical problems. After the summer vacation, basic science courses are continued for one semester of the second year, with the addition of interdepartmental courses in abnormal human biology and an introduction to the evaluation of patients and their problems.

The major clinical year is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary education aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms involved and the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final semesters, with the inclusion of some vacation periods, are devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

► RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year.

► GRADES AND PROMOTION

Students are evaluated in terms of comments regarding their performance and professional attitudes. Official records indicate whether they have passed with honors, passed, or failed. Students are not ranked within their class.

A student may be advanced to the next academic year of the medical course or be allowed to repeat a year only upon the recommendation of the faculty members under whom he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

► KEY TO COURSE NUMBERS

Medical Center courses: The suffixes F, S, and T refer to the initial three semesters.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

► SUMMARY OF CURRICULUM

FIRST-YEAR CLASS, 1973

SEPTEMBER 10, 1973, to FEBRUARY 15, 1974. First semester basic science courses and correlation clinics.

FEBRUARY 25, 1974, to JUNE 14, 1974. Second semester basic science courses and correlation clinics.

SECOND THROUGH FOURTH YEARS

SEPTEMBER, 1974, TO FEBRUARY, 1975. Third semester, introductory clinical and basic science courses.

MARCH, 1975, through FEBRUARY, 1976. Clinical clerkships.

MARCH, 1976, through APRIL, 1977. Electives.

► BASIC SCIENCE AND INTRODUCTORY CLINICAL COURSES (THREE SEMESTERS)

Anatomy 101F. Microscopic anatomy

The departmental staff.

Anatomy 102F. Human anatomy

The departmental staff.

Anatomy 102S. The structure and function of the nervous system

Drs. Carpenter and Noback (*Anatomy*).

Lectures, demonstrations, and laboratory.

Biochemistry 101F. Introductory biochemistry

The departmental staff.

Genetics 101T.

Dr. Krooth and associates.

Medicine 101FS. Correlation clinics

Drs. Frantz and Herter.

Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102T. Introduction to the patient

Dr. Aranow and associates.

Includes physical diagnosis as well as patient approach.

Medicine 103T. Abnormal human biology

Dr. Canfield and interdepartmental associates.

Exercises in the application and correlation of the basic sciences to a broad range of clinical problems, including the cardiopulmonary, renal, gastrointestinal, endocrinologic, and hematologic systems, as well as clinical immunology and infectious diseases. Teaching is by seminar with supporting lectures, and is closely integrated with the courses in pharmacology and with *Medicine 102T—Introduction to the patient.*

Microbiology 101S. General medical microbiology and immunology

The departmental staff.

Microbiology 105S. Principles of microbiology, immunology, epidemiology, and the specific diagnosis and therapy of infectious diseases

The departmental staff.

Pathology 101S. General and special pathology and neuropathology

Dr. King and the departmental staff.

Pharmacology 101T. General and special pharmacology

The departmental staff.

Physiology 101F. Human physiology

The departmental staff.

Psychiatry 101FST. Human behavior

Drs. Kolb and Michels, and the departmental staff.

Public Health 101T. Parasitic diseases

Dr. Katz and staff.

Human diseases caused by the protozoa, helminths, and arthropods.

Surgery 101T. Introduction to surgery
Dr. Wiedel and staff.

► MAJOR CLINICAL YEAR

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Bendixen and staff.

Dermatology 201. Dermatology and syphilology
Drs. Harber, Sanders, Young, and staff.

Medicine 201. Ward clinical clerkship in medicine
Dr. Morris (*in charge*) and staff.

Neurology 201. Ward clinical clerkship in neurology
Dr. Rowland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Dr. Mount.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
Dr. DeVoe and staff. At Vanderbilt Clinic and the Eye Institute.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
Dr. Stinchfield and staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat
Dr. Baker and staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship
Dr. Behrman and staff.
Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry
Drs. Michels and W. Hunt, and the clinical faculty. At New York State Psychiatric Institute, Presbyterian Hospital, Harlem Hospital, and St. Luke's Hospital.

Public Health 201. Clerkship in public health and community medicine
The departmental staff.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201
Dr. Darling and staff.

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff.

Surgery 202. Lectures and demonstrations in surgical pathology
Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology
Dr. Lattimer and staff.

► ELECTIVES (14 MONTHS)

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science-clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; involvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, infectious diseases, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth-year students, who take part in the activities in university or government health centers in Central and South America, Africa, or Asia.

► SUMMARY OF STUDIES (IN HOURS)

BASIC SCIENCE

	HOURS		HOURS
Anatomy 101F	96	Microbiology 105S	53
Anatomy 102F	149	Pathology 101S	182
Anatomy 102S	45	Pharmacology 101T	96
Biochemistry 101F	107	Physiology 101F	105
Genetics 101T	11	Psychiatry 101FST	102
Medicine 101FS	31	Public Health 101T	36
Medicine 102T	174	Surgery 101T	18
Medicine 103T	195	TOTAL	1,473
Microbiology 101S	73		

MAJOR CLINICAL YEAR

	HOURS		HOURS
Anesthesiology 201	64	Psychiatry 201	130
Dermatology 201	17	Public Health 201	54
Medicine 201	330	Radiology 201	11
Neurology 201-202	192	Radiology 202	11
Obstetrics and Gynecology 201	192	Rehabilitation Medicine 201	10
Ophthalmology 201	18	Surgery 201	156
Orthopedic Surgery 201	64	Surgery 202	36
Otolaryngology 201	18	Urology 201	64
Pediatrics 201	192	TOTAL	1,559

► SPECIAL PROGRAMS

M.D.–PH.D. PROGRAM

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and the Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain a Ph.D. degree in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program.

Applicants interested in the M.D.–Ph.D. program should write for further information and application forms to:

Dr. Lowell M. Greenbaum
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Pharmacology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

CURRICULA IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are ap-

proximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin, *Courses in Physical Therapy and Occupational Therapy*.

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN HUMAN NUTRITION

The Faculty of Medicine offers a program of study in nutrition leading to the degree of Master of Science in human nutrition. Prerequisite for admission is an M.D. degree from an approved medical school or a bachelor's degree from a college or university approved by Columbia University. Previous preparation in quantitative analysis, elementary organic chemistry, and elementary biochemistry is recommended for admission. Evidence of personal capability and fitness for this field is also a requirement. In addition to completing 32 credit points in prescribed courses or their equivalent, the candidate must devote three months full time to research work in nutrition and field work in human nutrition and submit a thesis or essay. This program is designed for those desiring to work in the clinical field of nutrition in health and disease. Further details may be obtained by writing to the Institute of Human Nutrition at 511 West 166th Street, New York, N.Y. 10032, and requesting its bulletin.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

The Postgraduate Program

Opportunities for medical training beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree who have completed hospital internships. Proper training for specialization includes three major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn him a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and St. Luke's Hospital. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Departments of Instruction

ANATOMY

PROFESSOR AND CHAIRMAN

Edward W. Dempsey. *B.A., Marietta, 1932; Sc.M., Brown, 1934; Ph.D., 1937; M.A., Harvard, 1946; Sc.D., Marietta, 1954*

PROFESSORS

Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*
Frederick A. Mettler (Neurology). *B.A., Clark, 1929; M.A., Cornell, 1931; Ph.D., 1933; M.D., Georgia, 1937; D.Sc., Clark, 1951*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
George K. Smelser (Ophthalmology) (Malcolm P. Aldrich Professor). *B.A., Earlham, 1929; Ph.D., Chicago, 1932*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*

ADJUNCT ASSOCIATE PROFESSOR

Richard M. Hoar. *B.A., Dartmouth, 1950; M.D., Kansas, 1956*

ASSISTANT PROFESSORS

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
George W. Cooper, Jr. *B.A., Brown, 1958; Ph.D., Stanford, 1964*
William G. Dilley. *B.A., California (Berkeley), 1965; M.A., 1967; Ph.D., 1970*
Ray C. Henrikson. *B.Sc., Massachusetts, 1959; M.Sc., Brown, 1961; Ph.D., Boston, 1966*
Mary M. L. Lee. *B.A., Hunter, 1963; M.S., Michigan, 1964; Ph.D., Columbia, 1972*
W. Patrick Luckett. *B.A., Missouri, 1961; M.A., 1963; Ph.D., Wisconsin, 1967*
Letty Moss-Salentijn (Oral Biology). *D.D.S., State University of Utrecht, 1967*
Gerard P. Pereira. *B.Sc., Columbia, 1961; M.Sc., McGill, 1965; Ph.D., 1968*
John J. Rasweiler IV. *B.A., Colgate, 1965; Ph.D., Cornell, 1970*
Robert W. Rice (Orthopedic Surgery). *B.A., Cornell, 1965; M.S., New York Medical College, 1967; Ph.D., 1969*
Alfonso Solimene. *B.A., Brooklyn, 1954; M.A., Columbia, 1959; Ph.D., 1970*

ADJUNCT ASSISTANT PROFESSORS

Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*
Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*

RESEARCH ASSOCIATE
Robert J. Demarest

INSTRUCTOR
Robert M. Hunt, Jr.

SPECIAL LECTURERS
Edmund Applebaum
Joseph Reibeisen

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ASSOCIATE CLINICAL PROFESSORS

William H. Cassebaum. *B.A., Cornell, 1927; M.D., 1931*
Richard G. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Joseph Ford. *B.A., Harvard, 1942; M.D., Columbia, 1945*
Charles C. Harrold, Jr. *B.S., Georgia, 1937; M.D., Harvard, 1941*
Adrian Lambert, Jr. *B.A., Yale, 1930; M.D., Columbia, 1934*
J. William Littler. *M.D., Duke, 1942*

Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Thomas S. Royster. *B.A., North Carolina, 1940; M.D., Pennsylvania, 1943*

ASSISTANT CLINICAL PROFESSORS

John T. Brennan, Jr. *M.D., Harvard, 1950*
David M. Carberry. *Ph.B., Providence, 1947; M.D., Jefferson, 1951*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
T. Scudder Winslow. *B.A., Princeton, 1938; M.D., Cornell, 1942*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS

H. Clay Alexander
Thomas H. Dailey

INSTRUCTORS (*continued*)

Clarence A. Dunn, Jr.
William V. Healey, Jr.

► AT ST. LUKE'S HOSPITAL

PROFESSOR

Lawrence E. Stevens. *B.S., Utah, 1950; M.D., 1952*

PROFESSORS OF CLINICAL SURGERY

Hugh F. Fitzpatrick. *B.S., Creighton, 1942; M.D., 1943*
Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*

CLINICAL PROFESSOR

John P. West. *B.S., Alabama Polytechnic Institute, 1927; M.D., Cornell, 1932*

ASSOCIATE CLINICAL PROFESSORS

W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*
Colin W. McCord. *B.A., Williams, 1949; M.D., Columbia, 1953*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

ASSISTANT CLINICAL PROFESSORS

Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Robert T. Fraser. *B.A., Dartmouth, 1931; M.D., Columbia, 1934*
Conrad Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
Robert McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*
Robert W. Schick. *B.A., Columbia, 1948; M.D., New York Medical College, 1952*

INSTRUCTORS

Charles R. Blair
Clayton R. De Haan
Alfred A. Moscarella

INSTRUCTORS (*continued*)

Hiroshi Washio
John J. White
Samuel D. Winner

ASSISTANTS

Leif O. Holgerson
Lawrence F. Simon

UROLOGY

PROFESSOR AND CHAIRMAN

John K. Lattimer. *B.A., Columbia, 1935; M.D., 1938; Med.Sc.D., 1943*

► AT PRESBYTERIAN HOSPITAL

PROFESSOR OF CLINICAL UROLOGY

Ralph J. Veenema. *B.A., Calvin, 1942; M.D., Jefferson, 1945*

ASSOCIATE PROFESSOR OF PATHOLOGY

Myron Tannenbaum. *B.S., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

ASSOCIATE PROFESSORS OF CLINICAL UROLOGY

Aurelio Uson. *M.D., Barcelona (Spain), 1950*
Hans H. Zinsser. *B.S., Harvard, 1938; M.D., Columbia, 1942*

ASSOCIATE CLINICAL PROFESSORS

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*
Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*

ASSISTANT PROFESSORS

Harry Seneca. *M.D., American University of Beirut, 1933; M.S., Tulane, 1943*
Arthur M. Smith. *B.A., Cornell, 1959; M.D., Maryland, 1963*

ASSISTANT PROFESSOR OF PATHOLOGY

Phillip Tomashefsky. *Ph.D., New York University, 1969*

ASSISTANT PROFESSORS OF CLINICAL UROLOGY

Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

ASSISTANT CLINICAL PROFESSORS

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*

Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Sandor H. Wax. *B.S., Union (Schenectady), 1949; M.S., Boston, 1950; M.D., Tufts, 1954*

ASSOCIATES

Charles E. Umhey, Jr.
Ralph C. Yeaw

RESEARCH ASSOCIATE

Stanford Pulrang

INSTRUCTORS

Frederick S. Dick
Clement A. Furey, Jr.
Robert Granato
Philip B. Jensen
Paul Tucci
Robert R. White
Arthur T. Willetts

ASSISTANTS

Luis Marte Abreu
Stanley Bloom
Richard Fadil
Stanley J. Landau

SPECIAL LECTURERS

Bruno Fingerhut
Meyer M. Melicow

► AT MARY IMOGENE BASSETT HOSPITAL

ASSOCIATE CLINICAL PROFESSOR OF SURGERY

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

► AT HARLEM HOSPITAL

ASSISTANT CLINICAL PROFESSOR

Harold A. Garnes. *B.S., College of the City of New York, 1944; M.D., Howard, 1951*

INSTRUCTOR

Urbano K. Guarin

► AT ROOSEVELT HOSPITAL

ASSISTANT CLINICAL PROFESSORS

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert S. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

INSTRUCTOR

James W. Vastola

► AT ST. LUKE'S HOSPITAL

ASSISTANT PROFESSOR OF CLINICAL UROLOGY

Manuel Fernandes. *M.D., Coimbra (Portugal), 1956*

ASSISTANT CLINICAL PROFESSOR

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

INSTRUCTORS

Alfred F. Fretz
Waleed G. Maloof
Constantine Photos

INSTRUCTORS (*continued*)

Joseph D. Putignano
Rudolph D. Talarico
Pellegrino J. Tozzo

ASSISTANT

Arumbi P. Subramaniam

Internship-Residency Placements: Class of 1973

Alexander, Charles	*Maine Medical Center, Portland, Me.*	*Rotating 1*
Altman, Philip	*Presbyterian Hospital, New York, N.Y.*	*Pathology*
Armstrong, Robert	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Austin, Howard	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Barnard, William	*New York Hospital, New York, N.Y.*	*Surgery*
Bell, Edward	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Bellamy, Robert	*University Hospitals, Cleveland, Ohio*	*Medicine*
Blackington, Charles	*Mary Imogene Bassett Hospital, Cooperstown, N.Y.*	*Rotating 6*
Boyce, James	*Los Angeles County USC Medical Center, Los Angeles, Calif.*	*Medicine*
Brabbee, Gregory	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Brown, Malcolm	*Mary Imogene Bassett Hospital, Cooperstown, N.Y.*	*Medicine*
Bruen, Marian	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Calderbank, James	*Maine Medical Center, Portland, Me.*	*Rotating 1*
Carroll, David	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Chester, Alexander	*Georgetown University, Washington, D.C.*	*Medicine*
Chiu, David	*Barnes Hospital, St. Louis, Mo.*	*Surgery*
Collins, Steven	*University of Michigan Affiliated, Ann Arbor, Mich.*	*Medicine*
Craig, Edward	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Creelman, Kevin	*University of Arizona Affiliated, Tucson, Ariz.*	*Family Practice*
Davidoff, Bernard Mark	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Davis, James	*San Diego County–University Hospital, San Diego, Calif.*	*Medicine*
Dean, Jurrien	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Demarest, Gerald	*University of Washington Affiliated, Seattle, Wash.*	*Surgery*
De Nicola, Lucian	*Presbyterian–University, Pittsburgh, Pa.*	*Pediatrics*
De Nisco, Anthony	*St. Francis Hospital, Hartford, Conn.*	*Rotating 1*
De Pasquale, Eugene	*University of New Mexico Affiliated, Albuquerque, N.M.*	*Medicine*
Dericks, Gerard, Jr.	*Queen's Hospital, Honolulu, Hawaii*	*Orthopedic Surgery*
Dransfield, Douglas	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Feinfeld, Linda	*New York State Psychiatric Institute, New York, N.Y.*	*Psychiatry*
Finley, David	*University of Virginia, Charlottesville, Va.*	*Surgery*
Fraser, Patricia	*Harlem Hospital, New York, N.Y.*	*Medicine*
Friedlander, Richard	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Gardiner, Walter H.	*University of Michigan Affiliated, Ann Arbor, Mich.*	*Medicine*
Goldberger, Mark	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Greenberg, Roger	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Grossbard, Elliott	*Massachusetts General Hospital, Boston, Mass.*	*Medicine*
Grundfest, Sharon	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Hacken, Joan	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Hacker, Peter	*Univ. of Michigan Affiliated, Ann Arbor, Mich.*	*Medicine*
Hakes, Thomas	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Halsted, Douglas	*Mayo Graduate School, Rochester, Minn.*	*Surgery*
Handwerger, Richard	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Hawkins, Katherine	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Herbert, John	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Heyman, Richard	*Bronx Municipal Hospital Center, New York, N.Y.*	*Pediatrics*
Huskins, Dennis	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Hutcheon, David	*Johns Hopkins Hospital, Baltimore, Md.*	*Medicine*
Johnson, Sara	*Presbyterian-Pacific, San Francisco, Calif.*	*Rotating 0*
Kalter, Joshua	*Cincinnati General Hospital, Cincinnati, Ohio*	*Medicine*
Kaye, Jefferson	*Strong Memorial Hospital, Rochester, N.Y.*	*Rotating 2*
Keddington, Robert	*University of California (Irvine) Affiliated, Irvine, Calif.*	*Surgery*

Kouzmanoff, Alan	*St. Luke's Hospital, New York, N.Y.*	*Psychiatry*
Kvam, David	*St. Luke's Hospital, New York, N.Y.*	*Surgery*
Lake, Alan	*State University of Iowa Hospitals, Iowa City, Iowa*	*Surgery*
Leahey, Edward	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Leahy, Dennis	*San Diego County-University, San Diego, Calif.*	*Medicine*
Leimert, Joseph	*State University of Iowa Hospitals, Iowa City, Iowa*	*Medicine*
Liggett, Peter E.	*New York Hospital-Memorial, New York, N.Y.*	*Medicine*
Lipton, Mitchel	*Syracuse Medical Center, Syracuse, N.Y.*	*Surgery*
Lombardo, John	*Mount Sinai Hospital, New York, N.Y.*	*Medicine*
Luken, Martin	*Johns Hopkins Hospital, Baltimore, Md.*	*Medicine*
Lupovici, Mihai	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Lynn, Stephan	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Lyons, David	*Mary Hitchcock Memorial Hospital, Hanover, N.H.*	*Surgery*
McAuliffe, Vincent	*Bellevue Hospital Center–New York University, New York, N.Y.*	*Medicine*
McConnell, Robert	*Barnes Hospital, St. Louis, Mo.*	*Medicine*
McKay, Lauchlan	*Shadyside Hospital, Pittsburgh, Pa.*	*Family Practice*
McLanahan, Charles	*Grady Memorial Hospital, Atlanta, Ga.*	*Surgery*
McLean, Edward	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Makrauer, Frederick	*Mary Imogene Bassett Hospital, Cooperstown, N.Y.*	*Medicine*
Mattison, Donald	*Presbyterian Hospital, New York, N.Y.*	*Obstetrics-Gynecology*
Mears, John	*University Hospital, Boston, Mass.*	*Medicine*
Meehan, Thomas	*Cornell–North Shore Hospital, Manhasset, N.Y.*	*Medicine*
Mezaraups, Gunar	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Michelson, Eric	*University of Pennsylvania, Philadelphia, Pa.*	*Medicine*
Myerberg, David	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Myers, Alexander	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Nissenblatt, Michael	*Johns Hopkins Hospital, Baltimore, Md.*	*Medicine*
O'Neill, Donald	*Hartford Hospital, Hartford, Conn.*	*Surgery*
Okamoto, Emi	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Pepkowitz, Samuel	*North Carolina Memorial Hospital, Chapel Hill, N.C.*	*Pediatrics*
Peteet John	*North Carolina Memorial Hospital, Chapel Hill, N.C.*	*Medicine*
Pierson, Eric	*University of Minnesota, Minneapolis, Minn.*	*Surgery*
Pines, Jeffrey	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Platt, Tan	*St. Joseph's Hospital, Denver, Colo.*	*Rotating 9*
Powlis, William	*Beth Israel Hospital, Boston, Mass.*	*Medicine*
Pynoos, Robert	*Mount Sinai Hospital, New York, N.Y.*	*Pediatrics*
Rau, Dean	*Hennepin County General Hospital, Minneapolis, Minn.*	*Rotating 2*
Ress, Richard	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Riehle, Robert	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Rubin, George	*Montefiore Hospital, New York, N.Y.*	*Surgery*
Ruskin, Frederic	*San Diego County–University, San Diego, Calif.*	*Pediatrics*
Sacks, Linda	*Children's Hospital, Philadelphia, Pa.*	*Pediatrics*
Santamaria, Jaime	*Mary Imogene Bassett Hospital, Cooperstown, N.Y.*	*Medicine*
Santulli, Robert	*New York State Psychiatric Institute, New York, N.Y.*	*Psychiatry*
Saunders, Richard	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Schultz, Neal	*Mount Sinai Hospital, New York, N.Y.*	*Medicine*
Schwartz, Richard	*University of California, Los Angeles, Calif.*	*Surgery*
Sherman, William	*Georgetown University–D.C. General, Washington, D.C.*	*Surgery*
Sherrid, Mark	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Southwick, Frederick	*Boston City Hospital, Boston, Mass.*	*Medicine*
Speert, David	*University of Michigan Affiliated, Ann Arbor, Mich.*	*Pediatrics*
Spielman, Scott	*University of Pennsylvania, Philadelphia, Pa.*	*Medicine*
Stewart, James	*University of Michigan Affiliated, Ann Arbor, Mich.*	*Medicine*
Stockman, Mark	*Beth Israel Hospital, Boston, Mass.*	*Medicine*
Straus, John	*Strong Memorial Hospital, Rochester, N.Y.*	*Pediatrics*
Syracuse, Donald	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Tabor, Edward	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Taub, David	*Thomas Jefferson University, Philadelphia, Pa.*	*Medicine*

Thornton, Yvonne *Roosevelt Hospital, New York, N.Y.* *Obstetrics-Gynecology*
Tornberg, David *Roosevelt Hospital, New York, N.Y.* *Surgery*
Trelstad, Donald *Good Samaritan Hospital, Portland, Ore.* *Medicine*
Untereker, William *Mount Sinai Hospital, New York, N.Y.* *Medicine*
Vander Veer, Peter *Santa Barbara Cottage Hospital, Santa Barbara, Calif.* *Rotating 0*
Von Hoff, Daniel *H. C. Moffitt–University of California, San Francisco, Calif.* *Medicine*
Webb, Michael *University of Oregon Hospitals, Portland, Ore.* *Rotating 0*
Webb, Nancy *University of Oregon Hospitals, Portland, Ore.* *Rotating 0*
Weeks, Lionel E. *University of New Mexico Hospitals, Albuquerque, N.M.* *Rotating 0*
Weiss, Allen *Presbyterian Hospital, New York, N.Y.* *Medicine*
West, Robert *St. Vincent's Hospital, New York, N.Y.* *Surgery*
Whitsett, Jeffrey *Mount Sinai Hospital, New York, N.Y.* *Pediatrics*
Wild, Wayne *New England Deaconess Hospital, Boston, Mass.* *Medicine*
Williams, Philip, Jr. *Rochester General Hospital, Rochester, N.Y.* *Surgery*
Winther, Lynn *New York State Psychiatric Institute, New York, N.Y.* *Psychiatry*
Wrobleski, Daniel *Roosevelt Hospital, New York, N.Y.* *Surgery*
Yackulic, Charles *St. Luke's Hospital, New York, N.Y.* *Psychiatry*

Class of 1974

Allyn, Thomas Richard Springfield, Ill.
B.A., Northwestern, 1968
Antman, Elliott Marshall Flushing, N.Y.
B.A., Columbia, 1971
Arlinghaus, Frank Henry, Jr. Rumson, N.J.
B.A., Columbia, 1970
Armstrong, Carol L. New York, N.Y.
B.A., Bryn Mawr, 1969
Bateman, Jane Bronwyn Long Beach, Calif.
B.A., California (Berkeley), 1970
Beaumont, Charles Barry Lakeville, Conn.
B.A., Yale, 1965
M.S.F.S., Georgetown, 1967
Benton, Edward Wayne Columbus, Ga.
B.S., Georgia Southwestern, 1970
Biertuempeel, Hugh C., III Summit, N.J.
B.A., Princeton, 1970
Blair, Lester Winston Bronx, N.Y.
B.A., Columbia, 1970
Blake, Jeffrey Wayne Cleveland, Ohio
B.A., Columbia, 1970
Blomstedt, Jeffrey William Wilmington, Del.
B.A., Dartmouth, 1970
Bodnar, Andrew Gabriel Bronx, N.Y.
B.A., Harvard, 1970
Boyle, James Joseph Hicksville, N.Y.
B.A., Yale, 1970
Burris, James Frederick Silver Spring, Md.
B.A., B.S., Brown, 1970
Burrows, Warren Booth Brookline, Mass.
B.A., Yale, 1967
Bush, Clinton Gilman, III Oyster Bay, N.Y.
B.A., Princeton, 1970
Bysshe, Stanley Mercer, Jr. New York, N.Y.
B.A., Virginia, 1970
Call, William Herbert South Burlington, Vt.
B.A., Yale, 1969
Chang, Stanley Bronx, N.Y.
B.S.E.E., Massachusetts Institute of Technology, 1968
M.S., Pennsylvania, 1970
Ching, Gerald Dock Sung Aiea, Hawaii
B.A., Hamilton, 1970
Christensen, Robert Dennis Layton, Utah
B.S., Utah, 1970
Cody, Hiram Sedgwick, III Mountain Lakes, N.J.
B.A., Dartmouth, 1970
Collins, Anne Flagler Millbrook, N.Y.
B.A., Mills, 1961
Cornwall, John Wallace Short Hills, N.J.
B.A., Williams, 1970
Craig, Susan M. New Milford, N.J.
B.A., Princeton, 1970
Crandall, Marilyn Elizabeth Maplewood, N.J.
B.A., Wellesley, 1970
Daniels, Charles W. New York, N.Y.
B.A., Yale, 1967
Davis, Richard Clifton, Jr. San Angelo, Texas
B.A., Texas A&M, 1963; Ph.D., 1968
Derkac, Wayne Michael Easton, Pa.
B.A., Dartmouth, 1970
Detwiller, John Patrick Rockville Centre, N.Y.
B.A., SUNY (Plattsburgh), 1969
Diamond, Norman George Waterloo, Iowa
B.A., Columbia, 1970

Eng, John E. Suffern, N.Y.
B.A., Harvard, 1970
Evans, Lewis C., II Amityville, N.Y.
B.A., Cornell, 1963; LL.B., 1965
Fischel, Robert Elliot Tenafly, N.J.
B.A., Brandeis, 1970
Fisher, Gregory Thomas New London, Conn.
B.A., Wesleyan, 1970
Fishman, Norman Bronx, N.Y.
B.A., Columbia, 1970
Ford, John Pegram Amherst, Mass.
B.A., Columbia, 1968
Foster, Leroy Paul, Jr. Chicago, Ill.
B.S., Loyola, (Illinois) 1970
Gale, Steven S. Hastings-on-Hudson, N.Y.
B.E., Vanderbilt, 1964
M.S., Columbia, 1970
Gladstone, Alan Richard Stamford, Conn.
B.S., Trinity, 1970
Goshorn, Robyn Kent Franklin, Ind.
B.A., Princeton, 1969
Grosh, William Wangerin Long Island City, N.Y.
B.A., New York University, 1970
Haagensen, Darrow E. Murrysville, Pa.
B.S., Hampden-Sydney, 1966
Ph.D., Tulane, 1971
Haberkern, Charles Martin Garden City, N.Y.
B.A., Yale, 1970
Habif, David Valentine, Jr. Plainsboro, N.J.
B.A., Princeton, 1970
Hadley, Terence James Rockville Centre, N.Y.
B.S., Fordham, 1970
Hagaman, John Frederick Wynnewood, Pa.
B.S., Trinity, 1970
Hamilton, Stuart Arnim Rockaway Park, N.Y.
B.S., Trinity, 1970
Higginbottom, Philip Arthur Easton, Md.
B.S.E., Princeton, 1969
Hirsch, Steven Robert Brooklyn, N.Y.
B.A., Yale, 1970
Hodess, Arthur Bart Bronx, N.Y.
B.A., Boston, 1970
Jeffers, Lennox John New York, N.Y.
B.S., St. John's (New York), 1967
Johnson, Robert Carl Pelham, N.Y.
B.A., Columbia, 1965
Johnson, Roland Eric Hackensack, N.J.
B.A., Columbia, 1970
Jones, Wesley Earl Holly Springs, Miss.
B.S., Tougaloo, 1970
King, William Leopold Yonkers, N.Y.
B.S., Manhattan, 1970
Krinsky, Michael Mayer New London, Conn.
B.A., Syracuse, 1970
Kuna, Samuel Thomas Westfield, N.J.
B.S., Muhlenberg, 1970
Kushner, Frederick Gary Great Neck, N.Y.
B.A., Columbia, 1970
Lane, Lewis Behr Plandome Manor, N.Y.
B.A., Columbia, 1970
Leach, James Clifton, N.J.
B.A., Rochester, 1970
Lesser, Howard Arthur, Jr. New York, N.Y.
B.A., Princeton, 1970
Letcher, Robert Lee Joliet, Ill.
B.S., William and Mary, 1970
Levine, Peter Robin Far Rockaway, N.Y.
B.A., Yale, 1970
Li, Suzanne Elmhurst, N.Y.
B.A., Oakland, 1970
Lovelace, Jesse Bernard Leechburg, Pa.
B.S., Pennsylvania State, 1970
Lowe, Edward H. New York, N.Y.
B.S., City College, 1971
Lowe, Frederick William, III Manchester, Conn.
B.S., Tufts, 1970
Luggen, Michael Bellevue, Ky.
B.A., Harvard, 1970
Lunsford, Lawrence Dade Petersburg, Va.
B.A., Virginia, 1970
Lynn, Robert I. Rivervale, N.J.
B.A., Rutgers, 1969
McClelland, Shearwood J. Gary, Ind.
B.A., Princeton, 1969
McConnell, John Claude Durham, N.H.
B.A., Wesleyan, 1968
McCuen, Brooks Walton DeWitt, N.Y.
B.A., Hamilton, 1969
MacDonald, Alan Bruce Manchester, Conn.
B.S., Tufts, 1970
McGrath, Patrick Joseph, Jr. West Orange, N.J.
B.S., Seton Hall, 1970
McNeil, Gloria Elaine Montreal, Canada
B.S., Howard, 1970
Marshall, Merville Cameron, Jr. Bronx, N.Y.
B.A., Columbia, 1970
Martin, Patricia Jewett New York, N.Y.
B.S., Columbia, 1969
Matkovic, Christopher S. Bronx, N.Y.
B.A., Rutgers, 1965
Ph.D., Harvard, 1970
Mattern, Richard Frank Clark, N.J.
B.A., Dartmouth, 1970
Miura, Dennis Seiji New York, N.Y.
B.S., Columbia, 1965; M.S., 1967
Moldover, Jonathan Reuben Brooklyn, N.Y.
B.S., Trinity, 1970

Momtazi, Shahab New Brunswick, N.J.
B.S., California (Berkeley), 1969; M.S., 1970
Nall, James Griffin New Orleans, La.
B.A., Yale, 1970
Neuhut, Denis Scott Franklin Square, N.Y.
B.A., Columbia, 1970
Newton, Mary J. Pittsburgh, N.Y.
B.A., Stanford, 1970
Nicholson, John Mallory Wistar
Moorestown, N.J.
B.S., Ohio Wesleyan, 1970
Orient, Jane Michel Tucson, Ariz.
B.A., B.S., Arizona, 1967
Overstreet, James Wilkins
Savannah Beach, Ga.
B.A., University of the South, 1967
Passamonte, Paul Michael Avon, N.Y.
B.S., SUNY (Albany), 1970
Polkes, Eric William New York, N.Y.
B.A., Hobart, 1969
Pomerance, Glenn Noel Flushing, N.Y.
B.A., Bard, 1968
Popper, Laura D. New York, N.Y.
B.S., City College, 1967
Prudden, Peter Allen Upper Nyack, N.Y.
B.A., Harvard, 1968
Quinn, James Andrew East Meadow, N.Y.
B.A., Hofstra, 1970
Rand, James Alan Huntington, N.Y.
B.A., Denver, 1970
Rapoport, Frederick Alan Scarsdale, N.Y.
B.A., Columbia, 1970
Rasmussen, Carl Arthur Maywood, N.J.
B.A., B.S.M.E., Lafayette, 1965
M.S., Columbia, 1970
Ray, Audell Woods Pluckemin, N.J.
B.A., Vassar, 1970
Reichelderfer, Mark Winnetka, Ill.
B.A., Amherst, 1970
Rerych, Stephen Karl New Rochelle, N.Y.
B.S., North Carolina State, 1969
Rosnick, Lyle Eugene Powhatan Point, Ohio
B.A., Columbia, 1970
Sabety, Eric Farid Montclair, N.J.
B.A., Franklin and Marshall, 1970
Sadasivan, Kalia K.
Singapore, Republic of Singapore
B.A., Dartmouth, 1971
Savage, David Glass Chagrin Falls, Ohio
B.A., Wesleyan, 1970
Scharff, Nicholas St. Louis, Mo.
B.A., Yale, 1966
Scholes, John Vackiner Wilmington, Del.
B.S., Trinity, 1970
Schroeder, Karl John Suffern, N.Y.
B.A., Notre Dame, 1970
Schubach, William Harley Columbus, Ohio
B.A., Stanford, 1966
Schwartz, Allan Bronx, N.Y.
B.S., City College, 1967
M.A., Harvard, 1968
Schwarz, Steven Michael Tuckahoe, N.Y.
B.A., Yale, 1970
Scott, Gregory E. New York, N.Y.
B.S., Lebanon Valley, 1970
Seals, Jerry Ellis Buffalo, N.Y.
B.S., SUNY at Buffalo, 1969
Seigle, Robert Lee Westfield, N.J.
B.A., Northwestern, 1970
Sherman, Lon Gary Dover, N.J.
B.S., Vermont, 1971
Siegal, Michael Selig Bayside, N.Y.
B.A., Harvard, 1970
Smith, Rederick Keir San Diego, Calif.
B.A., Princeton, 1970
Solny, Meyer N. New York, N.Y.
B.A., Yeshiva, 1970
Spencer-Green, George T. Kenton, Ohio
B.A., Oberlin, 1969
Squire, Gail Wilder Brooklyn, N.Y.
B.A., Princeton, 1970
Stahl, Jeffrey Drew Maumee, Ohio
Stearns, Gretchen New York, N.Y.
B.A., New York University, 1967
Stern, Roy Howard New York, N.Y.
B.A., Columbia, 1970
Stewart, Andrew Fyfe Bronxville, N.Y.
B.S., Trinity, 1970
Sturgis, Joan New York, N.Y.
B.A., Barnard, 1965
Tedeschi, Adele Catherine
Long Island City, N.Y.
B.A., Vassar, 1970
Terry, William Ferrell Brentwood, Tenn.
B.A., Vanderbilt, 1970
Theodore, William H. New York, N.Y.
B.A., Harvard, 1969
Thomashow, Byron Martin Brooklyn, N.Y.
B.A., Columbia, 1970
Trippel, Stephen Bowman Evanston, Ill.
B.A., Swarthmore, 1970
Turco, John Harvey Melrose, Mass.
B.A., Harvard, 1970
Turi, Zoltan Gabriel Livingston, N.J.
B.A., Harvard, 1970
Vande-Stouwe, Robert Allen
Queens Village, N.Y.
B.A., Manhattan, 1970
Van Valkenburg, Charles Mac
Princeton, N.J.
B.S., Illinois, 1970
Wagner, Charles Gilbert New Milford, N.J.
B.S., Fairleigh Dickinson, 1971
Weber, James Karl New York, N.Y.
B.A., Yale, 1970

Weingarten, Michael S. Exton, Pa.
B.A., SUNY (Binghamton), 1970
Weiss, Karen S. Hamm Greenland, Pa.
B.S., Muhlenberg, 1970
Westerfield, Samuel Zaza III Washington, D.C.
B.S., Howard, 1970
White, David Charles Dallas, Texas
B.A., Columbia, 1970
White, Eric Alan Casper, Wy.
B.A., Yale, 1970
Wilkins, Dennis Edward Washington, Mich.
B.S., Wayne State, 1970
Williams, Sue Brown New York, N.Y.
B.A., Grinnell, 1962
Wintch, Richard Wallace Manti, Utah
B.A., Utah, 1970
Winternitz, Charles Austin Mendham, N.J.
B.A., Johns Hopkins, 1970
Yee, Ngai Ming Honolulu, Hawaii
B.A., Northwestern, 1970

Class of 1975

Ambinder, Roy Mark New York, N.Y.
B.A., Yale, 1971
Andreson, James Lawrence Lexington, Mass.
B.A., Princeton, 1971
Antoine, Clarel Brooklyn, N.Y.
B.S., City College, 1971
Aron, David Clark Bayside, N.Y.
B.A., Columbia, 1971
Bell, Kevin Edmund Hollywood, Fla.
Berger, Paul Robert Garden City, N.Y.
B.A., Duke, 1971
Berliant, Bonnie Sue New York, N.Y.
B.A., Barnard, 1968
Bodnar, Paul Zoltan Flushing, N.Y.
B.A., Johns Hopkins, 1971
Bonagura, Vincent Robert Staten Island, N.Y.
B.A., Columbia, 1971
Burtenshaw, Bruce Francis Logan, Utah
B.A., Utah State, 1971
Bushong, Charles Robert, Jr. Short Hills, N.J.
B.A., Princeton, 1971
Bussel, James Bruce New York, N.Y.
B.A., Yale, 1971
Carden, George Alexander III New York, N.Y.
B.A., Yale, 1968
Casals-Ariet, Christina Brock New York, N.Y.
Casden, Richard Stephen Woodmere, N.Y.
B.A., Williams, 1971
Cassebaum, Mary Elizabeth Englewood, N.J.
B.A., Brown, 1970
Chang, Gloria Joan Hong Kong
B.S., McGill, 1971
Chou, James Y. Floral Park, N.Y.
B.S., Columbia, 1965
Ph.D., Washington (St. Louis), 1971
Cohen, Frances Bernard Cambridge, Mass.
B.A., Radcliffe, 1971
Copeland, Brian R. Corning, N.Y.
B.A., Dartmouth, 1971
Corey, Timothy James Kenmore, N.Y.
B.S., Yale, 1971
D'Alessandro, Suzanne Shirley So. Orange, N.J.
B.A., Mount Holyoke, 1971
De Cresce, Robert Patrick Rumson, N.J.
B.S., Boston College, 1971
DeJak, Dorothy Ann Euclid, Ohio
B.A., Case Western Reserve, 1971
De Petrillo, Michael Albert Methuen, Mass.
B.A., Dartmouth, 1971
Deringer, Paul Martin Allentown, Pa.
B.A., Columbia, 1971
Dickinson, John Carlton E. Aurora, N.Y.
B.A., Amherst, 1971
diSant'Agnese, Paul Anthony Bethesda, Md.
B.A., Amherst, 1971
Duval, Laure Lumberville, Pa.
B.A., Antioch, 1967
Ehrlich, Jerome P. New York, N.Y.
B.A., Columbia, 1971
Epstein, Richard L. New York, N.Y.
B.S., SUNY (New Paltz), 1971
Erginoz, Hasan Suha New York, N.Y.
B.S., Columbia, 1968; M.S., 1969
Fain, Wendy Branower Providence, R.I.
B.A., Wesleyan, 1971
Fein, Henry George Malverne, N.Y.
B.S., Union (New York), 1971
Feit, Alan S. Syracuse, N.Y.
B.E., City College, 1968
M.S., Syracuse, 1971
Fink, Daniel Jonathan Rockaway, N.Y.
B.S., Cornell, 1968
M.S., Massachusetts Institute of Technology, 1970
Fischer, Stuart James Jersey City, N.J.
B.A., Virginia, 1971

Fleischman, Jay Alan Lawrence, N.Y.
B.S., Columbia, 1971
Fleiss, David J. Brooklyn, N.Y.
B.A., Cornell, 1966
M.A., New York University, 1969
Forbes, Ronald Omega Hollis, N.Y.
B.A., Harvard, 1970
Ford, James William Memphis, Tenn.
B.S., Tennessee State, 1971
Fox, Jerry Cullen Mt. Carmel, Ill.
B.S., Illinois, 1969
Freund, John Shelton Forest Hills, N.Y.
B.A., Columbia, 1971
Freund, Peter Ronald Amesbury, Mass.
B.A., Brown, 1971
Friedman, Bruce Alan Brooklyn, N.Y.
B.A., New York University, 1971
Gambert, Steven Ross Brooklyn, N.Y.
B.A., New York University, 1971
Gang, Eli Shimshon Brooklyn, N.Y.
B.A., Columbia, 1971
Gingrich, Susan Alice New York, N.Y.
B.A., Smith, 1968
Gordon, Gerald Schenectady, N.Y.
B.A., Rochester, 1971
Graham, Jimmy East Point, Ga.
B.A., Emory, 1971
Greenberg, Jonathan Somerset, Mass.
B.A., Columbia, 1971
Harris, Marcia Arlene Cambria Heights, N.Y.
B.S., Pace, 1971
Hartmann, Helen Gellhorn Dobbs Ferry, N.Y.
B.A., Minnesota, 1953
Ph.D., California (Berkeley), 1962
Hazell, Samuel Ethiel Bronx, N.Y.
B.S., City College, 1971
Heisler, Kenneth Avery New York, N.Y.
B.A., Columbia, 1971
Henry, Clarence Bruce Bronx, N.Y.
B.A., City College, 1971
Hines, Pamela Scott Cambria Heights, N.Y.
Hofbauer, John David Forest Hills, N.Y.
B.A., Chicago, 1971
Hopkins, B. Smith Urbana, Ill.
B.A., Williams, 1969
James, Maurice Canton, Miss.
B.S., Tougaloo, 1971
Jimenez, Luis New York, N.Y.
B.A., Columbia, 1971
Johnson, Denis Carlysle Brooklyn, N.Y.
B.S., Long Island, 1971
Johnson, Ronald Erik New York, N.Y.
B.S., Yale, 1962
J.D., Harvard, 1965
Kahn, Max Abram Burlington, Vt.
B.A., Harvard, 1969
Kahn, Mitchell Evanston, Ill.
B.A., Chicago, 1971
Karlson, Karen Bolling Bronx, N.Y.
B.S., City College, 1971
Kohn, Edward Ira Elmont, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Konigsberg, Sheldon Miami, Fla.
B.A., Emory, 1971
Konstam, Marvin Amnon Bronx, N.Y.
B.A., Columbia, 1971
Kutscher, Harlan Austin Flushing, N.Y.
B.A., Columbia, 1971
Lenchner, Gregory Steven New York, N.Y.
B.S., City College, 1971
Leung, Lit-King Hong Kong
B.S., McGill, 1971
Lin, Alec (Bo Gyi) Burma
B.A., Brandeis, 1971
Linday, Linda Anne New York, N.Y.
B.A., Barnard, 1970
Macko, Michael Bendall Ardsley, N.Y.
B.A., Princeton, 1971
McNair, Alfred Earl, Jr. Collins, Miss.
B.S., Tougaloo, 1971
McNamee, Michael Joseph Danbury, Conn.
B.S., Fordham, 1971
Mandelbaum, Joel Brooklyn, N.Y.
B.A., Amherst, 1971
Manger, Jules Neville Greenwich, Conn.
B.A., Lafayette, 1971
Maroldo, Thomas Vincent Bronx, N.Y.
B.A., Columbia, 1971
Martin, Jack Lee New Hyde Park, N.Y.
B.A., Hofstra, 1971
Maxwell, James Thomas East Rochester, N.Y.
B.S., Georgetown, 1971
Merriam, Arnold Edward Cambridge, Mass.
B.A., Harvard, 1971
Meyers, William Clark Andover, Mass.
B.A., Harvard, 1971
Michet, Clement John, Jr. Chicago, Ill.
B.A., Columbia, 1971
Moore, Eric Davidson Tenafly, N.J.
B.A., Harvard, 1969
Motz, Robin Owen Teaneck, N.J.
B.A., Columbia, 1959; Ph.D., 1965
Naidorf, Kenneth Fredric Brooklyn, N.Y.
B.A., Michigan, 1971
Okonmah, Chukwudi Samuel Dayton, Ohio
B.S., Dayton, 1971
Olson, Allan David Syosset, N.Y.
B.A., Cornell, 1971
Parsont, Lawrence Martin Great Neck, N.Y.
B.A., Columbia, 1971

Patashnik, Stephen Melvin Los Angeles, Calif.
B.A., California (Los Angeles), 1970
Patel, Daniel Walter Woodmere, N.Y.
B.A., Reed, 1971
Peraza, Jose Emilio Ft. Wayne, Ind.
B.A., Brown, 1971
Perez, Alicia Bronx, N.Y.
B.S., City College, 1971
Perrin, Timothy James Los Angeles, Calif.
B.A., Yale, 1971
Podell, Ronald Mark Elizabeth, N.J.
B.A., Amherst, 1971
Prince, Alice Sara Westfield, N.J.
B.A., Wellesley, 1971
Quinones, Lisandro Brooklyn, N.Y.
B.S., Pratt Institute, 1971
Ramos, Nancy Bronx, N.Y.
B.S., City College, 1971
Ratner, Ellise Delphin New York, N.Y.
B.A., Barnard, 1971
Richter, Alfred Jason Bronx, N.Y.
B.A., Columbia, 1971
Roberts, Stuart Lee Manhasset, N.Y.
B.A., Colgate, 1971
Robinson, Raymond Paul Short Hills, N.J.
B.A., Ripon, 1971
Rose, Eric Allen Bronx, N.Y.
B.A., Columbia, 1971
Rosenbaum, Robert Leon Brooklyn, N.Y.
B.S., Columbia, 1970
M.S., Pennsylvania, 1971
Rosenstein, Roger G. Hillsdale, N.J.
B.A., Columbia, 1971
Rossi, Gwendolyn Christiane Upper Nyack, N.Y.
B.A., Vassar, 1971
Rothendler, James Adam Scarsdale, N.Y.
B.A., Amherst, 1970
Roye, David Price Norman, Okla.
B.A., Oklahoma, 1971
Rubin, David Albert Teaneck, N.J.
B.A., Brown, 1971
Rusch, Valerie Williams New York, N.Y.
B.A., Vassar, 1971
Salgo, Peter Lloyd Flushing, N.Y.
B.A., Columbia, 1971
Sang, Delia Nai-Yueh Jamaica, N.Y.
B.A., Radcliffe, 1971
Sarewitz, Stephen John So. Orange, N.J.
B.A., Yale, 1971
Savatsky, Gary Joel Swampscott, Mass.
B.A., Dartmouth, 1971
Schned, Alan Robert Ocean, N.J.
B.S., Yale, 1971
Schned, Eric Steven Ocean, N.J.
B.S., Yale, 1971
Sheiman, Ellen Barbara Fairfield, Conn.
B.A., Rochester, 1971
Solomon, William Barney Brooklyn, N.Y.
B.A., Pennsylvania, 1970
Sperber, Jacob E. Great Neck, N.Y.
B.A., California (Berkeley), 1968
Spivak, Carl R. New York, N.Y.
B.A., Amherst, 1971
Stadelnikas, Joseph Robert Philadelphia, Pa.
B.S., United States Military Academy, 1970
Strizak, Alan Marc New York, N.Y.
B.A., Columbia, 1971
Taylor, Stephen Craig New York, N.Y.
B.S., City College, 1971
Topilow, Harvey Warren Hillside, N.J.
Tsapatsaris, Nicholas Peter Lowell, Mass.
B.A., Bowdoin, 1971
Valdes, Michael Edward Alexandria, Va.
B.A., Yale, 1971
Waldron, David Edmund W. Hempstead, N.Y.
B.S., Howard, 1971
Wasserman, Sheldon Marc Yonkers, N.Y.
B.A., Columbia, 1971
Wiesen, Mark Brooklyn, N.Y.
B.A., Yeshiva, 1971
Williams, Charles Thomas III Roslyn, N.Y.
B.A., Hofstra, 1971
Young, Margaret Ruth Princeton, N.J.
B.A., Wellesley, 1971
Zeitler, Kenneth Dale Malden, Mass.
B.A., Columbia, 1971

Class of 1976

Almas, James Patrick Havre, Mont.
B.A., Stanford, 1972
Azzi, Raymond Lee Northbrook, Ill.
B.S., Massachusetts Institute of Technology, 1972
Barbera, Lisa Gwendolyn Pelham, N.Y.
B.S., Vassar, 1972
Baredes, Soly Brooklyn, N.Y.
B.A., Columbia, 1972
Barnes, Henrietta Nichols Belmont, Mass.
B.A., Radcliffe, 1972
Barnett, Arthur Steven Wheaton, Ill.
B.A., Oberlin, 1972

Benacerraf, Beryl Rica Boston, Mass.
B.A., Barnard, 1971
Binkert, Barbara Lucile Yonkers, N.Y.
B.A., Ohio Wesleyan, 1963
Blatt, Charles Myron Auburn, Me.
B.A., Harvard, 1972
Bowe, John Andrew Ridgewood, N.J.
B.S., Pennsylvania, 1972
Breaux, Barry Ellison Guthrie, Okla.
B.A., Kansas, 1971
Bronzo, Richard Lawrence New Hyde Park, N.Y.
B.A., Hofstra, 1972
Brown, Larry Kenneth College Park, Md.
B.S., Maryland, 1972
Burke, Allan Martin Yonkers, N.Y.
B.A., Haverford, 1971
Carr, Daniel Barry New York, N.Y.
B.A., Columbia, 1968
Castellano, Thomas John Armonk, N.Y.
B.A., Harvard, 1972
Cerny, Kenneth Rudolph Timonium, Md.
B.A., Cornell, 1972
Chaiken, Barry Glenn Short Hills, N.J.
B.A., Yale, 1972
Chan, Florence Yu Hong Kong
B.S., Minnesota, 1972
Charity, Cynthia McClennon New York, N.Y.
B.A., Vanderbilt, 1969
Chin, Jean Marguerite Kingston, Jamaica
B.A., Hollins, 1972
Chyun, Yong-Sung Washington, D.C.
B.A., Case Western Reserve, 1972
Clark, Mary Helen Woodcliffe Lake, N.J.
B.A., Middlebury, 1971
Clark, Michelle Olivette Brooklyn, N.Y.
B.A., Hunter, 1972
Cohen, Ronald Scott Lawrence, N.Y.
B.A., Columbia, 1972
Cohn, Kenneth Holland Buffalo, N.Y.
B.A., Rochester, 1972
Daniels, Robert Leo Philadelphia, Pa.
B.A., Princeton, 1972
Davis, Jeffrey Miles Cherry Hill, N.J.
B.A., Princeton, 1972
Diller, Lawrence Howard Forest Hills, N.Y.
B.A., Clark, 1972
Drimmer, Eric Jonathan Harrison, N.Y.
B.A., Harvard, 1972
Dunford, James Vincent, Jr. Garden City, N.Y.
B.A., Syracuse, 1972
Eng, Catherine Suffern, N.Y.
B.A., Wellesley, 1972
Epstein, Nancy Ellen Old Westbury, N.Y.
B.A., Barnard, 1972
Fazio, Joseph Michael Trumbull, Conn.
B.A., College of the Holy Cross, 1971
Feldman, Edward Samuel Mt. Vernon, N.Y.
B.A., Harvard, 1972
Ferris, Warren Orrin San Francisco, Calif.
B.A., Harvard, 1966
M.B.A., Stanford, 1971
Flowers, Cornelius Collins, Mass.
B.S., Southern Mississippi, 1972
Forster, Susan Hall Philadelphia, Pa.
B.A., Radcliffe, 1972
Fox, Ira Jacob Omaha, Neb.
B.A., Harvard, 1972
Frasz, David Paul McHenry, Ill.
B.A., Princeton, 1968
Freeman, Linda Nancy Boston, Mass.
B.A., Pennsylvania, 1972
Friedman, Emanuel Livingston, N.J.
B.S., Newark College of Engineering, 1972
Fung, Yee Fai Hong Kong
B.S.E., Princeton, 1972
Galst, Jay Martin Milwaukee, Wis.
B.S., Wisconsin, 1972
Geller, Edmund Alan Brooklyn, N.Y.
B.A., New York University, 1972
Gilder, David Austin Scarsdale, N.Y.
B.A., Harvard, 1972
Gilhooly, Patricia Eileen West Germany
B.A., Manhattanville, 1972
Ginsberg, Brent William Shawnee Mission, Kansas
B.A., Princeton, 1972
Glaser, Bert Martin Hewitt, N.J.
B.A., New York University, 1971
Glinick, Stephen Ernest Islip, N.Y.
B.A., Bowdoin, 1971
Goldmann, Andrew Milton Buffalo, N.Y.
B.A., Cornell, 1972
Gonzalez, Frederick Andrew Condado, P.R.
B.A., Boston, 1972
Graham, Toney Lake City, S.C.
B.S., Claflin, 1972
Greenberg, Rosalie Brooklyn, N.Y.
B.A., New York University, 1972
Gregersen, Peter Kim Englewood, N.J.
B.S., Johns Hopkins, 1972
Groopman, Jerome Elliot Little Neck, N.Y.
B.A., Columbia, 1972
Gross, Gary Edward Sausalito, Calif.
B.A., Swarthmore, 1970
Gwirtsman, Harry Edward Springfield, N.J.
B.A., Yale, 1972
Hammill, Hunter Adrian Haworth, N.J.
B.S., Boston College, 1971
Harbison, Madeleine DiuVerre Altus, Okla.
B.A., Wellesley, 1971
Hillsman, Regina Onie Bronx, N.Y.
B.A., Bryn Mawr, 1972

Hoppock, John Scarborough, Jr. Wilmette, Ill.
B.A., Princeton, 1968
Horowitz, Pamela Ann New York, N.Y.
B.A., Stanford, 1968
Hurwitz, Shepard Raphael New Rochelle, N.Y.
B.A., Columbia, 1972
Ilson, Joyce Bronx, N.Y.
B.S., City College, 1972
Israel, Andrew Glenn Beverly Hills, Calif.
B.A., Stanford, 1972
Jacob, Matteethra Cambridge, England
B.S.E.E., Madras (India), 1970
M.S., Imperial College (London), 1971
Jaffe, Judith Liza Rego Park, N.Y.
B.A., Barnard, 1972
Jinadu, Babatunde A. Lagos, Nigeria
B.S., Central State (Ohio), 1972
Johnston, Charles Eugene II Los Angeles, Calif.
B.A., Yale, 1971
Kalmanowitz, Stuart Mark Deal, N.J.
B.A., Princeton, 1972
Karp, George Isaac Fair Lawn, N.J.
B.A., Columbia, 1972
Kaunitz, Jonathan Davidson Westport, Conn.
B.A., Columbia, 1972
Kinaszczuk, Tom Milltown, N.J.
B.A., Princeton, 1972
Kleaveland, Joseph Patrick Muskegon, Mich.
B.S., Michigan, 1972
Koster, Beth Ellen Port Chester, N.Y.
B.A., Smith, 1973
Kremberg, Marvin Roy Rockaway Park, N.Y.
B.A., Brooklyn, 1972
Kuchera, James Joseph Paramus, N.J.
B.S., Scranton, 1972
Kung, Esther Ho New York, N.Y.
B.A., Hunter, 1972
Leder, Mary Ellen Brooklyn, N.Y.
B.A., Rochester, 1972
Lefkowitch, Jay Harris New York, N.Y.
B.A., Clark, 1972
Leiter, Bruce Edmund Portland, Me.
B.S., Dartmouth, 1972
Lopyan, Stanley Arnold Flushing, N.Y.
Queens College
Luber, Murray Philip Bala Cynwyd, Pa.
B.A., Pennsylvania, 1972
McDonald, Marguerite Bridget New York, N.Y.
B.A., Manhattanville, 1972
McGuire, Stephen Albert Idaho Falls, Idaho
B.S., Idaho, 1970
M.S., Michigan State, 1972
McNally, James William Hamilton, Ohio
B.S., Massachusetts Institute of Technology, 1972
Mandelblatt, Jeanne Susan Flushing, N.Y.
B.A., Southern California, 1972
Marcal, Joseph Manuel Hong Kong
B.A., Hamilton, 1972
Marshall, Harry Jay III Madison, Wis.
B.S., Massachusetts Institute of Technology, 1969
Mayer, Deborah A. New York, N.Y.
B.A., Wisconsin, 1968
M.A., New School for Social Research, 1971
Mendoza, Francis Xavier Middletown, Conn.
B.S., Polytechnic Institute of Brooklyn, 1968
M.S., New York University, 1970
Merrell, Woodson Charles Chatham, N.J.
B.A., Amherst, 1971
Mitchell, William Anderson, Jr. Huntington, N.Y.
B.A., Pennsylvania State, 1972
Mount, Philip Maxwell Bronxville, N.Y.
B.A., Oberlin, 1963
M.A., Wake Forest, 1968
Ph.D., Tulane, 1972
Neugut, Alfred I. Brooklyn, N.Y.
B.A., Columbia, 1972
Nieves, Walter Leo Bronx, N.Y.
B.S., City College, 1972
Nolan, Brian Thomas Chicago, Ill.
B.S., Yale, 1972
Ogilvie, Orin Howard Salt Lake City, Utah
B.S., Utah, 1972
Osborn, Emilie Heffron Sisson Dallas, Pa.
B.A., Radcliffe, 1969
Ostrer, Harry Belmont, Mass.
B.S., Massachusetts Institute of Technology, 1972
Packer, Andrew J. Eastchester, N.Y.
B.A., Princeton, 1972
Padron, Sebastian Teobaldo San Juan, P.R.
B.A., Indiana, 1971
Parris, Oneall Eucline Barbados, W.I.
B.S., Yale, 1972
Peters, William Paul Kenmore, N.Y.
B.S., B.S.B.A., Pennsylvania State, 1972
Phillips, Malcolm Charles Valley Stream, N.Y.
B.A., Amherst, 1972
Ratner, Clifford Marc Harrison, N.Y.
B.A., Pennsylvania, 1967
Romagnoli, Mario Frank Bronx, N.Y.
B.S., Fordham, 1972
Rosenberg, Robert Alan Bronx, N.Y.
B.A., Columbia, 1972

Rosenthal, Stephen Martin W. Hartford, Conn.
B.A., Yale, 1972
Rosenwasser, Melvin Paul Walden, N.Y.
B.A., Johns Hopkins, 1972
Rosner, Saran Saul New Rochelle, N.Y.
B.A., Dartmouth, 1972
Ruderman, Marvin Ira Great Neck, N.Y.
B.A., Pennsylvania, 1972
Ruestow, Paul Charles Old Westbury, N.Y.
B.A., Princeton, 1972
Salmon, Jane Eva Fort Lee, N.J.
B.A., New York University, 1972
Sanchez, Guillermo Rafael So. Orange, N.J.
B.S., Seton Hall, 1966
Ph.D., Columbia, 1970
Schechter, Clyde Barry Cambridge, Mass.
B.A., Columbia, 1967
Schiffman, Robert L. Staten Island, N.Y.
B.A., Harvard, 1972
Schneider, Harry David New York, N.Y.
B.A., City College, 1966
M.A., Queens, 1971
Ph.D., City College, 1972
Schneider, Louisa Bea Laurelton, N.Y.
B.S., Queens, 1971
Schnur, Michael Jeffrey Queens, N.Y.
B.A., New York University, 1972
Schoen, Robert Taylor Bronxville, N.Y.
B.A., Harvard, 1972
Schultz, Robert Walter Hicksville, N.Y.
B.S., Notre Dame, 1972
Shoji, Elaine Carole Gardena, Calif.
B.S., California (Irvine), 1972
Silverman, David Alan New York, N.Y.
B.A., Columbia, 1972
Steinberger, Alfred Abe New York, N.Y.
B.S., City College, 1972
Sternschein, Michael Jon New York, N.Y.
B.A., Oberlin, 1970
Stuchin, Steven Andrew New Rochelle, N.Y.
B.A., Yale, 1972
Talon, Neil Stuart Southfield, Mich.
B.A., Michigan, 1972
Taylor, Howard Passaic, N.J.
B.S., Hobart, 1972
Turner, Robert Pearson Longmeadow, Mass.
B.A., Princeton, 1972
Ursell, Philip Christman Chevy Chase, Md.
B.A., Haverford, 1972
Van der Heide, Douglas John Berkeley, Calif.
B.A., California (Berkeley), 1972
Vernon, Mary Emma Louise Campobello, S.C.
B.S., South Carolina State, 1972
Veteran, Frank Anthony Tarrytown, N.Y.
B.A., Harvard, 1972
Welch, Elizabeth Ann Rye, N.Y.
B.A., New York University, 1972
Wilets, Greg Allen Chevy Chase, Md.
B.A., Wisconsin, 1972
Wilkinson, Dorothy Veronica Bronx, N.Y.
B.A., New York University, 1972
Wong, Kamehameha Kai-Min, Jr. Timonium, Md.
B.A., Johns Hopkins, 1972
Wood, John Chase Yardley, Pa.
B.A., Columbia, 1972
Woodriffe, Phillipa Gloria Laurelton, N.Y.
B.S., Molloy, 1972
Yaremchuk, Michael John Detroit, Mich.
B.A., Yale, 1972
Yergan, John Williston Park, N.Y.
B.A., Columbia, 1972
Zoltick, Jerel Mark Trenton, N.J.
B.A., Princeton, 1972

Class of 1977

Aaronson, Michael Jay Miami, Fla.
B.A., Cornell, 1973
Alexander, Frederick, Jr. Gladwyne, Pa.
B.A., Dartmouth, 1973
Ascher, Elizabeth Kasen Lexington, Mass.
B.A., Yale, 1973
Auchincloss, Elizabeth Lowell Ridgewood, N.J.
B.A., Yale, 1973
Baker, Robert William Scarsdale, N.Y.
B.A., Princeton, 1973
Ballantyne, Garth Hadden Port Washington, N.Y.
B.A., Harvard, 1973
Barsa, John Joseph Orangeburg, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Bassett, Susan Bronxville, N.Y.
B.S., Mount Holyoke, 1973
Bauer, Bertha Ann Brooklyn, N.Y.
B.A., Smith, 1973
Benson, Mitchell Clark Hewlett, N.Y.
B.S., Union (New York), 1973
Berliner, Susan Englewood, N.J.
B.A., Barnard, 1973
Bern, Lauren Berkeley, Calif.
B.A., California (Berkeley), 1973

Bhark, Philip Emerson, N.J.
Columbia
Bock, John Edward Swann Harbor, Md.
B.A., Princeton, 1973
Bodkin, Cordy Elaine Palo Alto, Calif.
B.A., Michigan, 1967
Bonner, Lorraine Cherry Valley, N.Y.
B.A., Radcliffe, 1970
Brown, Richard Paul Alexandria, Va.
B.A., Virginia, 1973
Buchholz, Gary David San Jose, Calif.
B.S., California (Davis), 1970
Calabrese, Daniel Anthony Brooklyn, N.Y.
B.S., New York University, 1971
M.S., Massachusetts Institute of Technology, 1973
Cambria, Richard Paul Roselle, N.J.
B.A., Holy Cross, 1973
Cervoni, Francisco Miguel San Juan, Puerto Rico
B.S., Le Moyne, 1972
Chamberlain, Marc Charles Berkeley, Calif.
B.A., California (Berkeley), 1973
Claiborne, Keith Earl Los Angeles, Calif.
B.A., Yale, 1973
Coonley, Craig Joseph Schenectady, N.Y.
B.S., Union (New York), 1973
Coverton, Ronald Wayne Richmond, Va.
B.A., Virginia, 1973
Davis, Jeffrey Paul Madison, Wis.
B.S., Wisconsin, 1968; Ph.D., 1972
Demartini, Paul Dean Englewood, N.J.
B.A., Columbia, 1972
Dietz, Frederick Richard Akron, Ohio
B.A., Harvard, 1973
Dodds, Peter Robert Stroudsburg, Pa.
B.A., East Stroudsburg State, 1973
Doubilet, Peter Michael Montreal, Canada
B.S., McGill, 1969
Ph.D., Massachusetts Institute of Technology, 1973
Dreher, Gerald Francis Brooklyn, N.Y.
B.A., Holy Cross, 1973
Dufresne, Craig Roger Shrewsbury, Mass.
B.A., Vermont, 1973
Dunaif, Andrea Elizabeth White Plains, N.Y.
B.A., Sarah Lawrence, 1973
Dworkin, Paul Adams, Mass.
B.S., Rensselaer Polytechnic Institute, 1972; M.S., 1973
Fanucchi, Michael Paul San Francisco, Calif.
B.S., Stanford, 1973
Feole, Glenn Louis DeKalb, Ill.
B.A., Princeton, 1973
Fingerhut, James William Berkeley, Ill.
B.S., Illinois, 1973
Fitz-James, Ingrid Anne-Marie New York, N.Y.
B.A., Sarah Lawrence, 1973
Fox, James Lester, Jr. Wilmette, Ill.
B.A., Bowdoin, 1973
Frank, Susan Judith Roslyn, N.Y.
B.A., Pennsylvania, 1972
Gallegos, Karl Vance Woodbridge, Va.
B.S., Massachusetts Institute of Technology, 1973
Garcia, Carmen Josefina Passaic, N.J.
B.A., Rutgers, 1973
Gardner, Edward Clinton, Jr. Decatur, Ga.
B.A., Emory, 1973
Gerber, Diane Louise Park Forest, Ill.
B.A., Vassar, 1973
Goldman, Ira Steven Jericho, N.Y.
B.A., Rochester, 1973
Gorman, Jack Matthew Monsey, N.Y.
B.A., Pennsylvania, 1973
Gould, Robert John Patchogue, N.Y.
B.A., Tufts, 1973
Greenebaum, Ellen Scarsdale, N.Y.
B.A., Barnard, 1973
Griggs, Edward Albert, Jr. Livingston, N.J.
B.S., Yale, 1973
Grodman, Marc Dennis Newark, N.J.
B.A., Pennsylvania, 1973
Gualtieri, Richard John Brooklyn, N.Y.
B.A., Columbia, 1973
Gustafson, Gregory Miner Brookside, N.J.
B.A., Yale, 1971
Haasler, George Bruce Buffalo, N.Y.
B.A., SUNY (Buffalo), 1973
Hammond, David B. New York, N.Y.
B.A., Rochester, 1973
Heldman, Jay Perry Yonkers, N.Y.
B.A., Columbia, 1973
Heller, Caren Alyson Braintree, Mass.
B.A., Radcliffe, 1973
Henry, Ronald Maurice Washington, D.C.
B.S.E.E., North Carolina State, 1971
Hensel, Bruce Martin Bayside, N.Y.
B.A., California (Los Angeles), 1971
Herron, Merinda Juanita Atlanta, Ga.
B.A., Pennsylvania, 1973
Hoffman, Mark Alan New Orleans, La.
B.A., Amherst, 1972
M.S., Tulane, 1973
Hutson, Glenda New York, N.Y.
B.S., Tougaloo, 1973
Ives, Jeffrey Lee Litchfield, Conn.
B.A., Colgate, 1973
Jorgensen, Jacob William III Fair Oaks, Calif.
B.S., Massachusetts Institute of Technology, 1973
Juncos, Jorge Luis Bayamon, Puerto Rico
B.S., Puerto Rico, 1973

Kane, Mary Agnes New York, N.Y.
B.A., Barnard, 1973
Kantor, Lauren Woodbury, N.Y.
B.A., Pennsylvania, 1973
Kaufmann, Charles Arthur Forest Hills, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Kinney, Walter Keith Ardsley, N.Y.
B.A., Vassar, 1973
Knobler, Joanna Gabin New York, N.Y.
B.A., Radcliffe, 1972
Kopelman, Rima Gail Jericho, N.Y.
B.A., Barnard, 1971
Kopelson, Gene Oceanside, N.Y.
B.A., Princeton, 1973
Kritzler, Robert Kimball Saddle River, N.J.
B.A., Johns Hopkins, 1973
Kroop, Steven Arthur Brooklyn, N.Y.
B.S., Yale, 1973
Kutscher, Austin Harrison, Jr. Scarsdale, N.Y.
B.A., Columbia, 1973
Lane, Edward Michael Plandome, N.Y.
B.A., Columbia, 1972
Lattimer, Jon Kingsley Englewood, N.J.
B.A., Dartmouth, 1973
Legant, Patricia Albuquerque, N.M.
B.A., Stanford, 1968
Ph.D., Yale, 1973
Leibowitz, David Steven Berkeley, Calif.
B.A., Columbia, 1972
Levine, Joel Barry N. Bellmore, N.Y.
B.A., Pennsylvania, 1973
Lewis, Neville Barrington Norwalk, Conn.
B.S., Hartford, 1973
Lewis, Vivian Chicago, Ill.
B.A., Radcliffe, 1973
Light, Susan Ellen Pittsburgh, Pa.
B.A., Clark, 1973
Liu, John Peter Rosedale, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Makadon, Harvey Jay Philadelphia, Pa.
B.A., Cornell, 1969
Meehan, Justine Mary Plandome Manor, N.Y.
B.A., Newton College of the Sacred Heart, 1970
Mellow, Nancy Lynn Chicago, Ill.
B.A., Illinois, 1967
Mendes, Donna Maria Roosevelt, N.Y.
B.A., Hofstra, 1973
Milgrom, Martin Louis Snyder, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Mitchell, William James Lake Stevens, Wash.
B.A., Washington, 1973; B.S., 1973
Mottow, Linda Susan Brookline, Mass.
B.A., Radcliffe, 1973
Mouradian, Wendy Elyse Brooklyn, N.Y.
B.A., Wellesley, 1971
M.S., Massachusetts Institute of Technology, 1973
Natanson, Charles Milwaukee, Wis.
B.A., Wisconsin, 1972
Nath, Barbara Joyce Purchase, N.Y.
B.A., Smith, 1964
Orloff, Paul Norman Brooklyn, N.Y.
B.A., Syracuse, 1968
Otto, Nancy Ruth Everett, Wash.
B.A., SUNY (Albany), 1970
Pachtman, Erica Phoenix, Ariz.
B.A., Vassar, 1972
Pamelia, Frank Xavier Scranton, Pa.
B.S., Scranton, 1973
Pan, Ellen Day-mei New York, N.Y.
B.A., Barnard, 1973
Peart, Harold Theophilus Brooklyn, N.Y.
B.S., Howard, 1971; M.S., 1973
Perez, Jose Ramon Kings Park, N.Y.
Duke University
Perrone, Howard Francis New York, N.Y.
B.A., Columbia, 1973
Phillips, Rogsbert Frenzel Decatur, Ga.
B.S., Georgia, 1970
M.S., Bridgeport, 1972
Prusnofsky, Leslie Brooklyn, N.Y.
B.S., Brooklyn, 1973
Pugh, George Arthur Youngstown, Ohio
B.A., Harvard, 1973
Rago, Thomas Anthony Trumbull, Conn.
B.A., Columbia, 1973
Recht, Lawrence David Bronx, N.Y.
B.A., New York University, 1973
Roberts, Thomas Elberry III Saratoga, Calif.
B.S., Stanford, 1973
Rodriguez-Villa, Fernando Jose Rio Piedras, Puerto Rico
B.S., Puerto Rico, 1973
Roen, Janet Leslie New York, N.Y.
B.A., Radcliffe, 1973
Rohrer, Richard Jeffrey Cincinnati, Ohio
B.S., Yale, 1973
Rose, David Forest Hills, N.Y.
B.A., Haverford, 1973
Rosenthal, Linda Ellen San Carlos, Calif.
B.A., Stanford, 1973
Rosenwein, Marilyn Fay Kew Gardens, N.Y.
B.S., Clark, 1973
Ruderman, William Brandon Demarest, N.J.
B.A., Rochester, 1972
Sacks, Frank Martin Boston, Mass.
B.S., Brown, 1970
Sampson, Jas de Seabron Jacksonville, Fla.
B.A., Yale, 1973

Schaefer, Daniel William Los Angeles, Calif.
B.A., California (Los Angeles), 1972
Schuster, Allen Howard Kew Gardens, N.Y.
B.A., Columbia, 1972; M.A., 1973
Scolnick, Barbara Bronx, N.Y.
B.S., Barnard, 1973
Shangold, Gary Alan Perth Amboy, N.J.
B.A., Pennsylvania, 1973
Shapiro, Lee Schulman Paterson, N.J.
B.A., Yale, 1973
Silverstein, Marc David Framingham, Mass.
B.S., Massachusetts Institute of Technology, 1971
Smith, Steven Philip Murray, Ky.
B.A., Columbia, 1973
Spiro, Alan Hugh Bronx, N.Y.
B.A., New York University, 1973
Spotnitz, William David New York, N.Y.
B.A., Harvard, 1973
Stamm, Patricia Jane New York, N.Y.
B.A., Barnard, 1970
Stern, Robert Gary Hewlett, N.Y.
B.A., Harvard, 1973
Stillman, Margaret Ann Bay Shore, N.Y.
B.A., Yale, 1973
Stone, Ross G. Pottsville, Pa.
B.A., Yale, 1973
Streicher, Eric Michael Wilmington, Del.
B.A., Middlebury, 1973
Sussman, Elliot Jay Clifton, N.J.
B.A., Yale, 1973
Thorsen, Marie Kristin Milwaukee, Wis.
B.A., Wisconsin, 1969
Tropper, Pamela Joan Jericho, N.Y.
B.A., Brandeis, 1972
Vaida, George Arthur Rio Piedras, Puerto Rico
B.A., Fordham, 1972
Valente, Philip Thomas Long Island City, N.Y.
B.A., Columbia, 1971
Washington, Eleby Rudolph Maplewood, N.J.
B.A., Brown, 1973
Weathers, Susan Wheeler Scarsdale, N.Y.
B.A., Oberlin, 1972
Webb, Hueldine Locust Grove, Ga.
B.S., Spelman, 1973
Williams, Antoinette Helena Hollis, N.Y.
B.A., Fisk, 1972
Wollack, Jan Brian Park Ridge, N.J.
B.S., Yale, 1973
Woolf, Paul Kenneth Worcester, Mass.
B.A., Brandeis, 1973
Ying, Christopher Y. Ridgewood, N.J.
B.S., Massachusetts Institute of Technology, 1973
Zachary, Kirk Jonathon Brooklyn, N.Y.
B.S., New York University, 1973
Zarian, Lawrence Peter Bayside, N.Y.
B.A., Columbia, 1973

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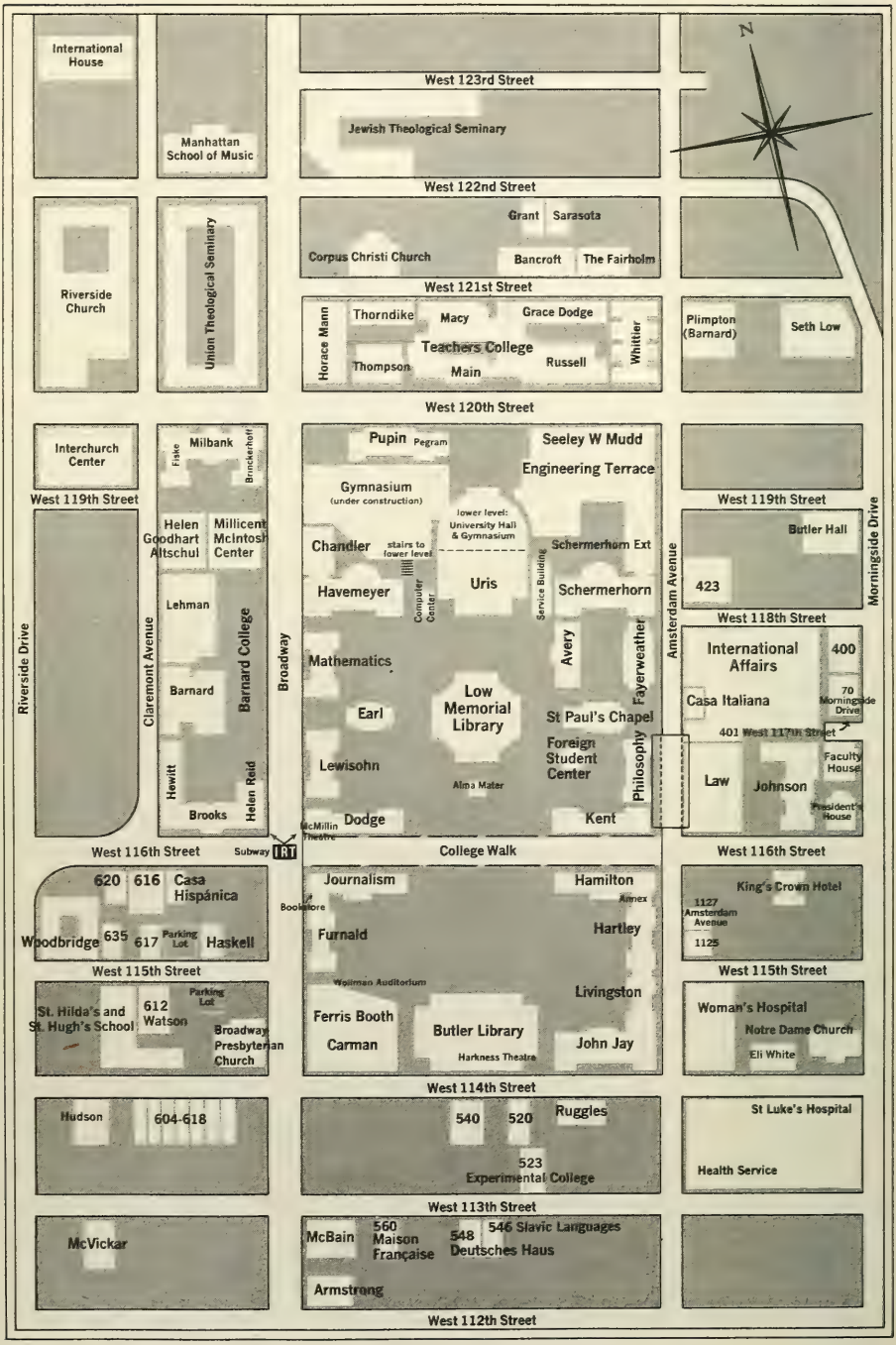
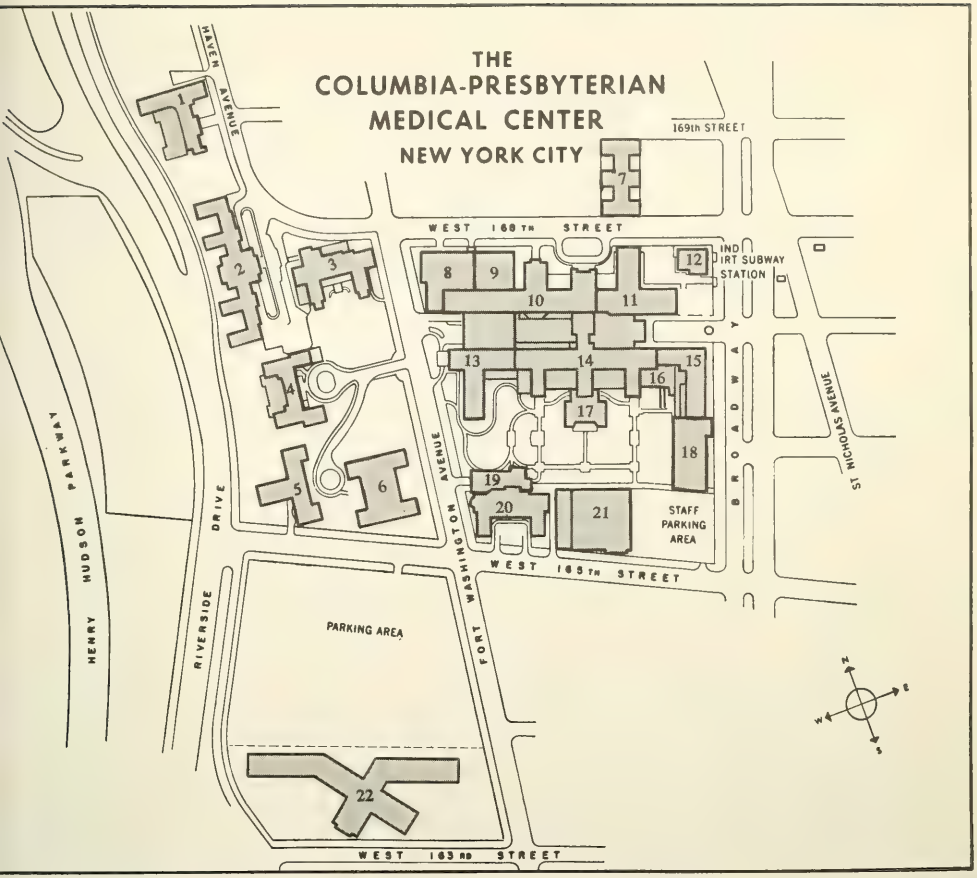
The Morningside Campus & Environs





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   PSYCHOANALYTIC CLINIC
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7. GEORGIAN NURSES RESIDENCE
8. WILLIAM BLACK MEDICAL
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9. ALUMNI AUDITORIUM
10. COLLEGE OF PHYSICIANS & SURGEONS
11. VANDERBILT CLINIC
    SCHOOL OF DENTAL AND ORAL SURGERY
12. DEPARTMENT OF HEALTH
    SCHOOL OF PUBLIC HEALTH
    WASHINGTON HEIGHTS HEALTH
    CENTER, N.Y.C.
13. HARKNESS PAVILION
14. PRESBYTERIAN HOSPITAL
    N.Y. ORTHOPEDIC HOSPITAL
    SLOANE HOSPITAL
    SQUIER UROLOGICAL CLINIC
15. BABIES HOSPITAL
16. RADIOTHERAPY CENTER
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    CHAPEL
18. BABIES HOSPITAL RESEARCH,
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To Columbia Students

THIS BULLETIN IS FOR YOUR USE AS A SOURCE OF CONTINUING REFERENCE. PLEASE SAVE IT. REPLACEMENT COPIES CAUSE EXPENDITURES WHICH SHOULD MORE DIRECTLY SERVE YOUR EDUCATION.

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M-College

Columbia University Bulletin

THE FACULTY OF MEDICINE

College of Physicians & Surgeons

1974–1975

Inquiries

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Office of Financial Aid: (Area code 212) 579–4100

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Public Health

The Faculty of Medicine of Columbia University

College of Physicians & Surgeons

1974-1975

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Academic Calendar, 1974-1975

MAJOR RELIGIOUS HOLIDAYS

See "Attendance" on pages 26–27 of this bulletin for a statement of University policy on absence for the observance of religious holidays.

July	**1**	**Monday. Academic year begins for third- and fourth-year students.**
	1–2	Monday–Tuesday.* Registration, including payment of fees, for third- and fourth-year students.
	4	**Thursday. Independence Day. Holiday for third- and fourth-year students.**
Aug	**1**	Thursday.† Last day to apply or reapply for October degrees (see September 5).
	31	**Saturday, through September 3, Tuesday. Labor Day vacation for third-year students.**
Sept	**5**	Thursday. Last day to file *late* application for October degrees.
	5–7	Thursday–Saturday.* Registration for first- and second-year students.
	9	**Monday. Academic year begins for first- and second-year students.**
Oct	**23**	**Wednesday. Award of October degrees.**
Nov	**1**	Friday.† Last day to apply or reapply for January degrees (see December 6).
	5	**Tuesday. Election Day. Holiday for first- and second-year students.**
	28–29	**Thursday–Friday. Thanksgiving holidays for first-, second-, and third-year students.**
Dec	**6**	Friday. Last day to file *late* application for January degrees.
	21	**Saturday, through January 2, 1975, Thursday. Vacation for third-year students.**
	21	**Saturday, through January 5, Sunday. Vacation for first- and second-year students.**
Jan	**17**	First semester ends for first-year students.

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* Students allowed to register after the period specified must pay a late fee.
† Students who apply after this date must pay a late fee.

Jan	**20**	Monday. Second semester begins for first-year students.
	22	**Wednesday. Award of January degrees.**
Feb	**17**	Monday.* Last day to apply or reapply for May degrees (see April 7).
	17	**Monday. Washington's Birthday. Holiday for first- and second-year students.**
	18–21	Tuesday–Friday. Final examination period for second-year students. Semester ends for second-year students.
	22	**Saturday, through March 9, Sunday. Vacation for second-year students.**
Mar	**3**	Monday. Elective curriculum begins for third-year students.
	10	Monday. Major Clinical Year begins for second-year students.
	22	**Saturday, through April 6, Sunday. Vacation for first-year students.**
Apr	**7**	Monday. Last day to file *late* application for May degrees.
May	**14**	**Wednesday. Commencement and P&S Convocation.**
	26	**Monday. Memorial Day. Holiday for all students.**
	31	Saturday through June 15, Sunday. Vacation for second-year students.
June	**13**	Friday. Second semester ends for first-year students.

* Students who apply after this date must pay a late fee.

The Faculty of Medicine

William J. McGill, Ph.D., L.H.D., LL.D. *President of the University*

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Bernard Schoenberg, M.D. *Associate Dean for Allied Health Affairs*

Bernard D. Challenor, M.D. *Assistant Dean for Urban and Community Health Affairs*

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Bard Haven Towers

View of Bard Hall from Riverside Drive

Columbia-Presbyterian Medical Center

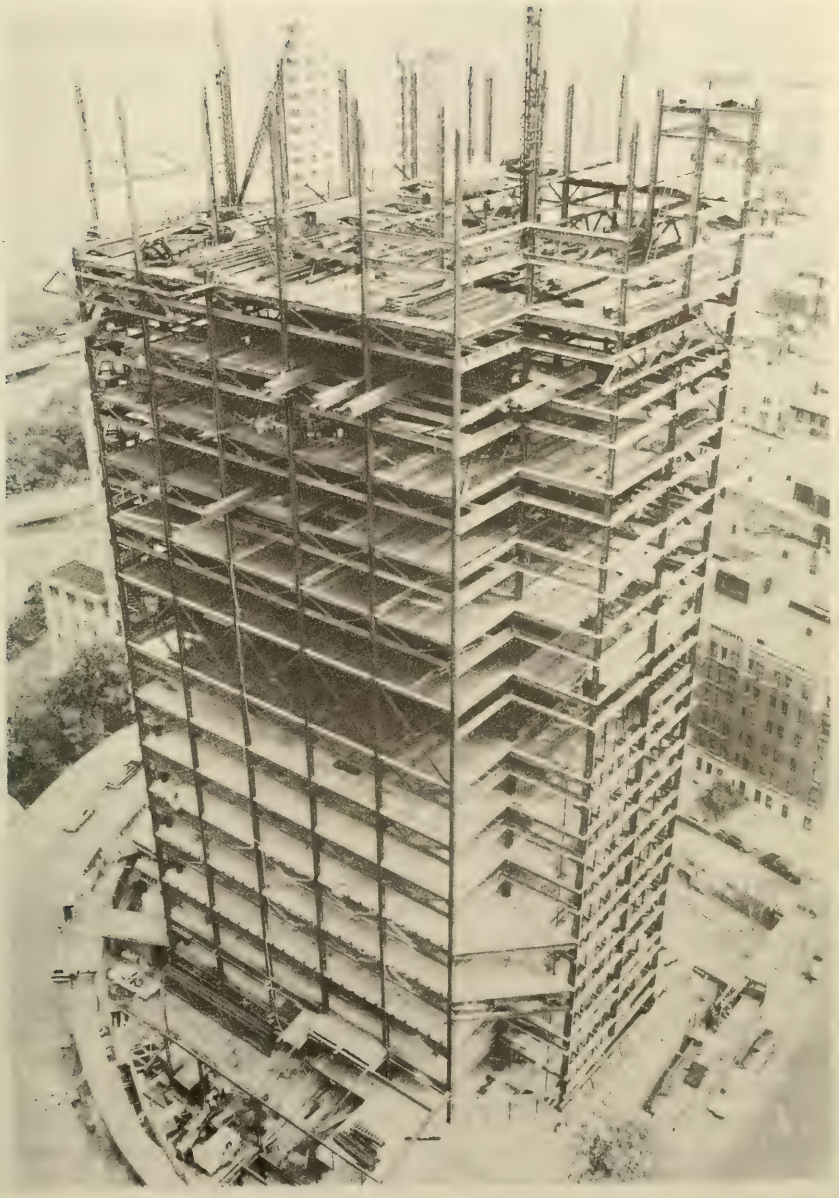
Martin Luther King, Jr., Pavilion, Harlem Hospital Center

St. Luke's Hospital Center

Roosevelt Hospital

Mary Imogene Bassett Hospital

The Francis Delafield Hospital



The Augustus Long Library—Health Sciences Center
(now under construction)

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an in-

tegral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Augustus Long Library–Health Sciences Center, a twenty-story structure now under construction diagonally opposite the William Black Medical Research Building, will include teaching, research, and library facilities.

HEALTH SCIENCES LIBRARY

The Health Sciences Library occupies parts of the three lower floors of the College building. It provides information, both current and historical, in books, journals, and nonprint media, for faculty members, research staff, and students. Services offered by the library include interlibrary loan, photocopying facilities, a multimedia facility, and a bibliographic service which has been expanded to include access to a variety of data bases, including MEDLINE at the National Library of Medicine, and several other medically related computer data bases from the State University of New York Biomedical Communications System.

The library contains approximately three hundred twenty four thousand three hundred volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than four thousand periodicals are received regularly. A professional library staff under the direction of C. Lee Jones, M.L.S., Health Sciences Librarian, is available to aid students, faculty members, and research workers in the schools and hospitals of the Medical Center.

A new health sciences library is being constructed which will house the print collections and provide ready access to the full range of nonprint media. This new facility will be part of the Augustus Long Library–Health Sciences Center.

The libraries on the Morningside campus, which contain over four million volumes, are open to all students. They include collections on biology, chemistry,

physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Health Sciences Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library, while special and departmental collections are located in various other buildings on the campus.

The Health Sciences Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital, enabling the consolidation of all the laboratories of the Institute in one building. These laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INSTITUTE OF HUMAN NUTRITION

The Institute of Nutrition Sciences was established in 1958 in the School of Public Health and Administrative Medicine (renamed the School of Public Health in 1972). The Institute has served as a graduate center to train individuals who would help meet the world-wide need to combat malnutrition. Between 1958 and 1972, 230 degrees were granted, 80 percent of them to foreign students representing forty-six countries. In addition, twenty-five postdoctoral fellows and approximately one hundred special students, mostly from abroad, received extensive training in clinical and public health nutrition.

In 1970 the name of the Institute was changed to the Institute of Human Nutrition, and in 1971 the administration was transferred from the School of Public Health to the Postgraduate Education Division of the Faculty of Medicine with the aim of developing research programs in human nutrition and expanding the teaching role of the Institute to encompass medical students and physicians.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. Several divisions of the Institute are now operating: (1) reproductive endocrinology, (2) reproductive biochemistry, (3) germ-cell physiology and

development, (4) reproductive morphology, (5) family life services, (6) biomathematics and demography, and (7) program development and evaluation.

The office of the Director of the International Institute for the Study of Human Reproduction is on the main floor of the Bard-Haven Apartments, 78 Haven Avenue.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

BARD HAVEN TOWERS

The Bard Haven Towers consist of three thirty-one-story apartment towers for married students, faculty members, and staff of Columbia University and affiliated institutions. The Towers are located between 169th and 171st streets on the west side of Haven Avenue overlooking Riverside Drive and the Hudson River.

► AFFILIATED HOSPITALS

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,504 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their thirteenth birthday, and care for premature babies. The total capacity of the hospital is 165. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a total capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 318 adult private patients.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of nervous diseases, was founded in 1909. It moved from East

67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary and Hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 122 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building and one floor in Harkness Pavilion. There are 187 beds, of which 124 are ward beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of the Presbyterian Hospital.

HARLEM HOSPITAL CENTER

Harlem Hospital Center, founded in 1887, is a general hospital of nearly eleven hundred beds serving Central Harlem and environs, responsible for the care of approximately four hundred thousand people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

ST. LUKE'S HOSPITAL

St. Luke's Hospital Center was established in 1850 and has been located on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center which contains 773 beds, including 53 pediatric beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than ninety thousand visits a year and the various clinics almost one hundred seventy thousand visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

THE ROOSEVELT HOSPITAL

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about two hundred sixty-three thousand outpatient and emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

FRANCIS DELAFIELD HOSPITAL

The nearby Francis Delafield Hospital is a 250-bed limited general hospital owned and operated by the City of New York through the Health and Hospitals Corporation. The College of Physicians and Surgeons contracts with the Health and Hospitals Corporation to provide professional staff and services in this hospital. Opportunities for education and training of medical students, nurses, paramedical personnel, house staff, and fellows are provided on the wards, in the clinics, and in the laboratories. The Institute of Cancer Research is attached to this hospital.

NEW YORK STATE PSYCHIATRIC INSTITUTE

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

THE MARY IMOGENE BASSETT HOSPITAL

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 183 beds and a full-time staff of specialists. In 1972 the staff saw 92,000 patients on an outpatient basis. A close liaison between the community medical resources and the hospital staff creates a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. Since 1947 the hospital has had a formal affiliation with Columbia, and each year approximately forty students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions. All applicants receive consideration for admission without regard to race, creed, color, national origin, or sex.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores if this test has been taken. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of 147 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to consider alternatives and make decisions, and has developed a desire for a continuous program of self-education. In the selection of students, preference is given to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who have already given evidence that they are likely to become ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

ADMISSION TO ADVANCED STANDING

Only a very small number of vacancies, at most, occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere but, in the past, the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been unable to evaluate the credentials of such applicants. As a result, the Committee has been able to

admit relatively few individuals either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

► REGISTRATION

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. At registration a student provides the information required and pays his tuition and fees. The Office of the Registrar, on the third floor of the College building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Those who do not now have a number should obtain one from their local Social Security office well in advance of registration.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

Each entering student is expected to read the University Rules of Conduct. Disciplinary matters not covered by the University Rules fall within the province of Dean's discipline. Academic and intellectual integrity, accepted principles in the medical profession, are expected of all students.

ATTENDANCE

Students are held accountable for absences incurred owing to late enrollment.

RELIGIOUS HOLIDAYS

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the

scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence due to religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Some of the major holidays occurring on weekdays during the current academic year are:

Tuesday, Wednesday, September 17, 18	Rosh Hashanah
Thursday, September 26	Yom Kippur
Tuesday, Wednesday, October 1, 2	First days of Sukkoth
Tuesday, Wednesday, October 8, 9	Concluding days of Sukkoth
Thursday, Friday, March 27, 28	First days of Pesach
Friday, March 28	Good Friday
Wednesday, Thursday, April 2, 3	Concluding days of Pesach

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 3–412) during the change-of-program period. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

Elementary language courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit by paying the fee after the fact.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

TUITION

For the full course in medicine for one academic year (or equivalent), payable in two installments	$3,400.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$150.00

STUDENT HEALTH AND HOSPITALIZATION INSURANCE FEE

For all students, per academic year (see page 29)	$111.00

APPLICATION FEES AND LATE FEES

For admission	$20.00
For each special examination	10.00
For renewal of application for a degree	1.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

PAYMENT OF FEES

Tuition is payable each term in advance and as part of registration. If this fee is paid after the last day of registration, a late fee of $10 will be imposed. Checks for tuition and fees should be drawn to the order of Columbia University.

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he wishes to withdraw from the University. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospitalization insurance fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

STUDENT HEALTH SERVICE

Daily office hours for students are held by the Student Health Service in Room 2005A, Black Building. The student health fee paid at registration is applied by the College to the cost of operating the Student Health Service. The hospitalization insurance fee is used to pay the annual premium of the Associated Hospital Service of New York. Students who require hospitalization are covered by their hospitalization insurance policy for admission to the Columbia-Presbyterian Medical Center or another hospital.

APPLICATION, OR RENEWAL OF APPLICATION, FOR A DEGREE

A degree candidate must file application for the degree by the date specified in the Academic Calendar. If the degree is not earned by the next regular time for the issuance of diplomas subsequent to the date of filing, the application may be renewed for a fee of $1 each time that the candidate chooses to come up for consideration. Degrees are awarded three times a year—in October, January, and May.

REQUESTS FOR TRANSCRIPTS

Transcripts may be requested by writing to the Office of the Registrar, 630 West 168th Street, New York, N.Y. 10032. *Official* transcripts must be sent by the University directly to an official address such as another university, a hospital, a business firm, or a government agency. However, a student may request that an unofficial transcript (stamped "Student Copy") be sent to him. There is a charge of $2 for each transcript requested except for those which are sent between offices of Columbia University. Checks accompanying transcript requests should be made payable to Columbia University.

► ESTIMATED EXPENSES

The approximate current costs for a single student attending the College during the *first academic year* are as follows:

Tuition and fees	$3,511.00
Room in Bard Hall (average cost; see page 43)	915.00
Board at Bard Hall (see page 43)	750.00

Books and supplies	375.00
Microscope (rental cost)	145.00

In addition, each student should budget approximately $800 for clothing, laundry, dry cleaning, recreation, and sundries, and approximately $750 for meals on weekends and holidays, when the Bard Hall dining room is closed.

There are some variations in costs for other years of the curriculum, accounted for by differences in the length of the academic year and in the student's need for books and equipment, costs of transportation to the affiliated hospitals, and food and living expenses if the student no longer resides in Bard Hall. Each year a Financial Aid Committee, composed of faculty and students, prepares a statement of estimated expenses for single and married students for each year of the medical school curriculum. These statements are available annually to all students.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope. The faculty recommends an instrument of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt illuminator also acceptable); all in carrying case.

A microscope rental service is operated by the Medical Center bookstore.

Students are required to secure the usual instruments needed for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► FINANCIAL AID

Financial aid programs are administered without regard to race, creed, color, national origin, or sex.

The College of Physicians and Surgeons financial aid programs, which are based primarily on demonstrated need, take the form of *scholarships, fellowships,* and *loans,* as described below. Such funds are intended to *supplement,* rather than substitute for, the student's own resources, including those of his parents. In addition, certain *prizes* are awarded regularly (*vide infra*).

Most recipients of financial aid are given both scholarships and loans. The amount of a scholarship award depends on the total scholarship monies available and the total number of students eligible for aid.

Scholarships, fellowships, and loans are usually awarded for one academic year at a time. Fellowships may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award.

New students who are in need of financial assistance should at their earliest opportunity complete the financial aid application sent with notices of admission to the College. No award notices should be expected before the fourth week in June. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 579–4100.

Spouses of medical students seeking employment at the Medical Center should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital.

SCHOLARSHIPS

Students are urged to determine the availability of scholarship assistance from the states in which they reside, and to make application for such funds when appropriate. As an example, New York State provides funds through the Scholar Incentive and Regents awards to its qualified permanent residents. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state.

Among nongovernmental sources of funding, there is the National Medical Fellowships, Inc., which awards fellowships to needy Black American, American Indian, Mexican-American, and mainland Puerto Rican men and women who have been accepted by or are already attending a medical school in the United States. An applicant must be an American citizen or have filed a Declaration of Intent to become one. Awards are given primarily to first- and second-year students, but there are occasional exceptions. Candidates for NMF awards, if already in medical school, should apply to the NMF at 3935 Elm Street, Downers Grove, Illinois 60515, before March 1 for second-year support. Other students should request an application form from the NMF at the time of submitting applications to medical schools. Upon acceptance by a medical school, the student should submit the completed NMF application.

There are also a number of University sources of scholarship funds. These include the following named scholarships, donated by alumni, foundations, corporations, and friends of the University:

Allen. Awarded annually to men who are unable to pay their own way for medical training. Gift of Mrs. Vivian B. Allen.

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the medical school. From the Banbury Scholarship Fund.

Bernheim, Alice Ida and Abraham Penner Scholarship Fund (1972). The income for the payment of tuition for a medical student each year.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship awarded every four years to one student. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1913. Awarded for medical student scholarships.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1928. Given at their tenth reunion.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship.

Class of 1934. Awarded for medical student scholarships.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1937. Awarded for tuition of medical students.

Class of 1938. Awarded annually to assist a Physicians and Surgeons student.

Class of 1939. Awarded for medical student scholarships.

Class of 1940. Awarded for medical student scholarships.

Class of 1942. Awarded for medical student scholarships.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Durante, Lawrence John. Awarded for medical student scholarships. Given by members of his class, Physicians and Surgeons 1961, in his memory.

Eglee, Edward Percy (1972). Awarded annually for medical student scholarships. Bequest of Edward Percy Eglee, Class of 1913. Member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a Clinical Professor of Medicine and Visiting Physician, Tuberculosis Service, Bellevue Hospital.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

Foster, Joseph C. (1973). To be awarded annually for the benefit of deserving medical students. Given by Mrs. Esther J. Foster, in memory of her husband.

Frantz, Virginia Kneeland. Awarded annually. Bequest of Dr. Frantz. Established in 1967.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Goetz, Norman. Awarded every three or four years to a student entering medical school who is considered the most deserving applicant on the basis of academic excellence as an undergraduate. Given by Mrs. Beatrice J. Goetz in honor of Dr. Frederick King, Class of 1929, in appreciation for his devoted attention to her husband, Norman Goetz.

Harsen, Jacob (1859). Five; awarded annually. Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Hirschl, Ira T., Scholarships (1972). From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

Hoyt Foundation. To be used for student research aid in one of the basic sciences for the encouragement of students seeking a career in teaching and research. Given by the Hoyt Foundation.

Huber, Francis. Awarded annually. Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Iklé, Charles F., Scholarship and Research Fund. Awarded annually to deserving medical students. Grant by the New York Community Trust.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

Jeal, Edward R. Awarded to deserving students studying under the Faculty of Medicine.

Johnson, Robert Wood, Foundation (1972). Can be awarded annually until 1976. Limited to women students, students from rural areas, and students from the Black, Indian, Mexican-American, and mainland Puerto Rican populations of the United States.

Lee, James T., Foundation, Inc. Awarded annually to medical students.

Lieb, Charles Christian. Awarded with preference given to an American, a worthy student, interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

Li Ming. Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

McCullough, Elizabeth Hall. Awarded to one or more worthy medical students. Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullough, an alumna of the College of Physicians and Surgeons.

Macy, Josiah, Jr., Foundation. For student research aid and special study projects in the field of human reproduction.

Manley, Herbert D. (1971). Awarded to assist worthy students in the College. Given as bequest by the late Dr. Herbert D. Manley.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Maze, M. Montgomery (1971). From the estate of M. Montgomery Maze, Pearl River, Town of Orangetown, County of Rockland and State of New York. Part of this Fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School, Pearl River, New York.

Mead, Mabel C. Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

Moritz, Samuel J., Memorial. Awarded to medical students in the College. Gift of the executors of the estate of Samuel J. Moritz.

P&S Scholarship Aid and Loan Fund (1971). Established by the wives of the members of the Faculty of Medicine. Awarded to needy students of medicine.

Pfeiffer, Rudolph and Mary E. Awarded to assist one or more deserving and needy students of medicine. Given by Mrs. Mary E. Pfeiffer.

Presbyterian Hospital Alumni Scholarship (1957). Granted annually to a student, with preference given to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

Rhodebeck, Richard. Awarded to American-born medical students who are in need of financial assistance. Four full scholarships annually. Given in memory of her husband by Mrs. Richard Rhodebeck.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the medical school.

Sagamore. Awarded to needy students enrolled in the College of Physicians and Surgeons to earn the degree of Doctor of Medicine.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Saxe, the Mary S., Scholarship Fund (1973). Bequest of Mary S. Saxe. To be used each year toward the tuition of a deserving student in the College of Physicians and Surgeons, as selected annually by the Dean.

Severinghaus, Aura E. (1961). Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Smith, Bernard E., Memorial (1967). Awarded annually for a medical student scholarship. Given by Mrs. Gertrude Smith, in memory of her husband.

Steinhardt Medical Scholarship (1971). Bequest of Samuel C. Steinhardt. For tuition and books ($100 for the latter expense category). Awarded as funds permit to medical students who have graduated from one of the colleges of the City University of New York and who have attended public schools exclusively (except for religious instruction). To be repaid fifteen years from the date of receipt: without interest for the first ten years, but with 5 percent annual interest thereafter on the unpaid balance.

Stevenson, the James A., Memorial Scholarship (1972). For undergraduate medical students. Established by Mrs. Ann Stevenson Hardesty, in memory of her brother, James Albert Stevenson, Class of 1943.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Stolfi, Julius E., Medical Educational and Research Fund Scholarship (1972). Awarded annually to an undergraduate medical student.

Stout, Arthur Purdy, Memorial. Awarded annually. Given by the Arthur Purdy Stout Society.

Strumdorf, Arnold. Awarded to one or more worthy students in their third or fourth year of medical school. Bequest of Miriam Strumdorf.

Vaughan, Harold S. Awarded to students of high character and scholastic ability. Bequest of Dr. Harold Vaughan, Class of 1904.

Vicale, Andrea, Memorial. Awarded to provide tuition and other financial assistance for deserving students in the College of Physicians and Surgeons. Established in memory of his father by Dr. Carmine T. Vicale.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Whiting—Dr. Fordyce B. St. John—Scholarship Fund (1972). To be awarded, as authorized by the Dean, to deserving students who are in need of financial assistance. Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

Zohrab, Clara and Krikor. Awarded annually to students of the University who

meet high academic standards and qualify for financial aid, with preference given to students of Armenian extraction.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster. Open to women graduate students for work in gynecology.

Beekman, Gerard. Awarded annually for advanced work in medicine. Given by the Beekman Family Association.

Du Bois, Abram. Awarded annually. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W., Fellowships. Awarded annually to graduate students who are residents of the State of Vermont or who have been graduated from a Vermont college or university. A bequest of George W. Ellis.

Felsen, Morris. Awarded for investigative work in the field of infectious diarrhea. Bequest of Joseph Felsen.

Gay, Frederick Parker, Memorial. Awarded annually. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Haviland, Theodore. Awarded to a physician for research projects or studies in the nature and cause of infectious diseases affecting infants and children.

Herrick, William Worthington. Given in honor of William Worthington Herrick, M.D. Awarded in medicine, preferably to those interested in the medical problems of pregnancy.

Hollingsworth, Leta Stetter, Fellowship (1944). Awarded annually to women who are graduates of the University of Nebraska, with preference given to those who were born in Nebraska or received their earlier education there. Holders are eligible for reappointment for one year. A gift of Harry L. Hollingsworth, in memory of his wife.

Holt, L. Emmett. Awarded annually. Open to a student of the graduating class of any medical school or to a graduate of not more than six years' standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Knapp Memorial. Awarded for research in ophthalmology on nomination by the Knapp Foundation Committee.

Koplik Children's Scholarship. Awarded every other year. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Meierhof, Edward. Awarded to a number of properly accredited graduates in medicine to receive instruction in applied anatomy and surgical technique and other surgical training.

Proudfit, Maria McLean. Awarded every four years. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)'92.

Romaine, DeWitt C. For medical research in the College. Given by the estate of C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Mrs. Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded to a graduate of the College to do graduate work in obstetrics. Given by Mrs. Ervin Alden Tucker.

Webster, Edward C. Awarded for research in endocrinology or an allied field.

LOANS

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below. In all cases, the amount loaned is based on the applicant's demonstration of need for additional funds to meet educational and living expenses. Students who foresee the need to apply loan funds toward

the costs of their medical education are urged to consult with the Financial Aid Officer of the College of Physicians and Surgeons well in advance of registration.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers for their loans who are citizens or permanent residents of the United States but not University employees or members of the applicant's immediate family (i.e., mother, father, siblings). Foreign students may borrow from federal or state loan funds upon being granted permanent resident status in the United States.

Federal Loans. Health Professions Loans are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student during a nine-month academic year is $3,500. Over a twelve-month year a student may borrow as much as $4,667. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 3 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* for up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during periods of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state which has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (See "Loan Repayment or Cancellation for Professional Practice," below.) (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, insurance companies, and eligible schools. The maximum loan each academic year under this program is $2,500, and the total outstanding loan balance at any one time may not exceed $10,000. Interest may not be in excess of an annual percentage rate of 7 percent. Lending institutions participating in this program can provide further information regarding interest rates. Repayment begins nine to twelve months after the student's studies have been completed or otherwise terminated, and is scheduled for completion within five to ten years. The minimum monthly payment is $30.

Deferment of repayment is permitted for up to three years during the student's service in the military, the Peace Corps, or Volunteers in Service to America (VISTA).

Comparable loans are insured by a number of states.

Other Sources of Loans. The National Education Loan Guarantee Program of the American Medical Association Education and Research Foundation (AMA–ERF) makes possible loans to all medical students, interns, and residents in good standing who are United States citizens, provided they are enrolled in full-time training at an AMA-approved American medical school or hospital and can demonstrate financial need. Medical students must have completed their first semester in order to qualify. The maximum amount that can be borrowed in a twelve-month period (September 1 to August 31) is $1500. Up to a total of $10,000 may be borrowed over a period of seven years. The minimum loan for any one interim note is $400.

Most AMA–ERF guaranteed loans provide for interest at one percent over the prime rate at the time the loan is made and one percent additional during the pay-out period. Interest charges must be paid in full each year by the student. Payment of principal is deferred during the training period. Prepayment of principal may be made at any time without penalty.

University loans are also intended to supplement students' resources and are made annually. Repayment of these loans is scheduled to begin nine months after graduation and to be completed within ten years (provided that a repayment rate of at least $15 a month is maintained). The interest charge for University loans is 3 percent a year of the outstanding loan balance.

The University has certain named loan funds from which medical students may borrow when monies are available. Included among these are the following funds:

Amazon, Peter. Bequest of Peter Amazon.

Blumenthal, George, Jr. (1916). Used for the assistance of needy students in the medical school.

Class of 1906. Gifts from various members of the Class of 1906.

Class of 1919 (1944). Gifts from various members of the Class of 1919. To be used for interest-free loans to deserving students.

Gardner, Carol Elissa. Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

Greene, David (1970). A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

Hawkins, George L., Jr. Gift of George L. Hawkins, Jr., Class of 1941.

Steinhardt, Samuel C. See Steinhardt Medical Scholarship, under *Scholarships,* above.

In addition to the foregoing, periodically there may be funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Loan Repayment or Cancellation for Professional Practice. The Comprehensive Health Manpower Training Act of 1971 provides that if a physician obtained a Health Professions Student Loan or *any other educational loan* for the costs of education at a school of medicine and enters into an agreement with the Secretary of Health, Education, and Welfare to practice for a period of at least two years in an area in a state designated by the Secretary (after consultation with the appropriate state health authority) to have a shortage of, and need for, persons trained in medicine, the Secretary will repay a portion of the educational loans which are outstanding on the date a physician begins practice under the agreement, as follows: (1) Upon completion of the first year of the practice as specified in the agreement, 30 percent of the principal and interest of each such loan which is outstanding on the date the physician begins such practice will be repaid. (2) Upon completion of the second year of such practice, another 30 percent of the principal and interest of each such loan will be repaid. (3) Upon completion of a third year of such practice, an additional 25 percent of the principal and interest of each such loan will be repaid. Should the physician enter into such an agreement with the Secretary and fail to fulfill the provisions of the agreement, he or she is liable to reimburse the Secretary for any payments which have been made by the government.

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Altman, Dr. Harry S., Prize (1973). Awarded to an outstanding student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarships in pediatrics.

Bartelstone, Herbert J., Award in Pharmacology. Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to a student who has done outstanding work in the field.

Cock, Thomas F., M.D., Prize. Awarded to a senior student for excellence in obstetrics and gynecology.

Gay, Frederick Parker, Memorial Award (1948). Awarded to the student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Loeb, Robert F., Award (1974). Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in

clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and Chairman of the Department of Medicine from 1947–1959.

Meierhof, Dr. Harold Lee, Prize. Awarded on recommendation of the Professor of Pathology to the student who has done the best work in the field. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P & S Class of 1924, Dr. Allen O. Whipple Memorial Prize. Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Ryan, Ann, Prize in Biochemistry (1973). To be awarded to deserving female graduate students.

Sciarra, Helen M., Prize. Awarded to a senior student in the College for outstanding work in neurology.

Smith, Joseph Mather, Prize. Awarded to the graduate of the College whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious.

Stevelman, Dr. Harold, Award (1973). Given to a student who has shown particular interest in, and dedication to, community health. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

Stevens Triennial Prize. Awarded triennially to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

Urology Prizes. Awarded to undergraduate students who submit the best essays on urological subjects during the school year.

Watson, Dr. William Perry, Prize in Pediatrics (1921). Awarded on the nomination of the Professor of Pediatrics to that member of the graduating class of the College who has been in attendance in the regular course of instruction for at least two years and has shown the most notable work in the study of the diseases of infants and children.

Watson, Dr. William Rayner, Award. Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion

of the Faculty, has the potential for exemplifying the humanitarian spirit in the art and practice of medicine, as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

► HOUSING

Room rates at Bard Hall depend on the length of the academic year; thus, first-year students pay $915, on the average, for a forty-week contract, and third-year students, $1,085, on the average, for a fifty-two-week contract. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan. The present rate is $750 for the first academic year, excluding the winter and spring holiday periods. The current rate for second-year students is $580. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates are provided to entering students by the Admissions Office. For further information, write to the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Towers on the Medical Center campus. For information, please write to the Office of University Housing, 400 West 119th Street, New York, N.Y. 10027.

► STUDENT AND ALUMNI ACTIVITIES

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club, founded some eighty years ago by James R. Mott, who later won the Nobel Peace Prize, has a rich tradition of service to students and others. In 1917 the Club raised money for the purchase of a steam launch. Two Club members delivered this vessel to Sir William Grenfell, the famed Labrador physician. The boat was used to bring medical services to Eskimo and Indian fishermen on isolated islands along the Labrador coast. In subsequent summers P&S seniors continued to participate in this project.

In the 1950s and 1960s the Club collected textbooks for foreign medical schools. The MERCY Project, initiated in 1969, brought medical aid to more than a thousand children flown from the Biafran-Nigerian war zone.

Every matriculated student of the College of Physicians and Surgeons is, *ipso facto,* a member of the P&S Club and is invited to participate in the activities of his choice. Under the guidance of the Club's Faculty Board of Advisers, students assume full responsibility for managing its affairs. The student cabinet, the Club's governing body, includes one elected member from each class and project chairmen who organize such activities as Orientation Week, Community Youth Work, plays, an arts festival, social get-togethers, movies, the Medical History Society, athletics, and visits

to the homes of faculty members. In recent years the Club has also sponsored conferences on such subjects as medicine and religion and medicine and law.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was first organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

All graduates of the College of Physicians and Surgeons are *ipso facto* members of the Alumni Association of the College. The office of the Alumni Association is located at 630 West 168th Street, New York, N.Y. 10032.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses, with correlation clinics to help relate basic science material to medical problems. After the summer vacation, basic science courses are continued in the second year, with the addition of interdepartmental courses in abnormal human biology and an introduction to the evaluation of patients and their problems.

The major clinical year is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary education aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms involved and the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final semesters, with the inclusion of some vacation periods, are devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

► RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year.

► GRADES AND PROMOTION

Students are evaluated in terms of comments regarding their performance and professional attitudes. Official records indicate whether they have passed with honors, passed, or failed. Students are not ranked within their class.

A student may be advanced to the next academic year of the medical course or be allowed to repeat a year only upon the recommendation of the faculty members under whom he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

► KEY TO COURSE NUMBERS

Medical Center courses: The suffixes F and S refer to the first and second years respectively.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

► SUMMARY OF CURRICULUM

FIRST-YEAR CLASS, 1974

SEPTEMBER 9, 1974, to JANUARY 17, 1975. First semester basic science courses and correlation clinics.

JANUARY 20, 1975, to JUNE 13, 1975. Second semester basic science courses and correlation clinics.

SECOND THROUGH FOURTH YEARS

SEPTEMBER, 1975, to MAY, 1976. Introductory clinical and basic science courses.

MAY, 1976, through APRIL, 1977. Clinical clerkships.

MAY, 1977, through APRIL, 1978. Electives.

► BASIC SCIENCE AND INTRODUCTORY CLINICAL COURSES

Anatomy 101F. Microscopic anatomy

The departmental staff.

Anatomy 102F. Human anatomy

The departmental staff.

Biochemistry 101F. Introductory biochemistry

The departmental staff.

Embryology 101F.

Anatomy departmental staff.

Genetics 101S.

Dr. Krooth and associates.

Human Growth and Development 101S.

Drs. Lorin, Jagiello, and Brasel, and staff.

Medicine 101F. Correlation clinics

Drs. Frantz and Jaretzki.

Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102S. Introduction to the patient

Dr. Aranow and associates.

Includes physical diagnosis as well as patient approach.

Medicine 103S. Abnormal human biology

Dr. Canfield and interdepartmental associates: Cardiopulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Rivlin; Gastrointestinal, Dr. Morris; Hematology, Dr. Rifkind; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Renal Diseases, Dr. Taggart.

Exercises in the application and correlation of the basic sciences to a broad range of clinical problems, including the cardiopulmonary, renal, gastrointestinal, endocrinologic, and hematologic systems, as well as clinical immunology and infectious diseases. Teaching is by seminar with supporting lectures, and is closely integrated with the courses in pharmacology and with *Medicine 102S—Introduction to the patient.*

Microbiology 101F. Cell biology

The departmental staff.

Neurobiology and Behavior 101S.

Drs. Carpenter, Kandel, Kupfermann, Noback, Rowland, Schwartz, and Spencer.

Pathology 101F. General and special pathology

Dr. King and the departmental staff.

Pathology 102S. Neuropathology

Dr. Duffy.

Pharmacology 101S. General and special pharmacology

The departmental staff.

Physiology 101F. Human physiology
The departmental staff.

Psychiatry 101FS. Human behavior
Dr. Altshuler and the departmental faculty.

Public Health 101S. Parasitic diseases
Dr. Katz and staff.
Human diseases caused by the protozoa, helminths, and arthropods.

Public Health 102S. Epidemiology
Dr. Susser and staff.

Surgery 101S. Introduction to surgery
Dr. Reemtsma and staff.

► MAJOR CLINICAL YEAR

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Bendixen and staff.

Dermatology 201. Dermatology and syphilology
Drs. Harber, Sanders, Young, and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Morris and staff.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at either Harlem, Roosevelt, or St. Luke's Hospital, to develop the basic skills of history taking, physical examination, and interpretation of laboratory data into an integrated approach to clinical medicine.

Neurology 201. Ward clinical clerkship in neurology
Dr. Rowland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Dr. Housepian and staff.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
The departmental staff. At Vanderbilt Clinic and the Eye Institute.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
Dr. Stinchfield and staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat
The departmental staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship
Dr. Behrman and staff.
Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry
Drs. Altshuler and W. Hunt, and the clinical faculty. At New York State Psychiatric Institute, Presbyterian Hospital, Harlem Hospital, and St. Luke's Hospital.

Public Health 201. Clerkship in public health and community medicine
The departmental staff.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201
Dr. Downey and staff.

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff.

Surgery 202. Lectures and demonstrations in surgical pathology
Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology
Dr. Lattimer and staff.

► ELECTIVES (12 MONTHS)

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science-clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; involvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, infectious diseases, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth-year students, who take part in the activities in university or government health centers in Central and South America, Africa, or Asia.

► SUMMARY OF STUDIES (IN HOURS)

BASIC SCIENCE

	HOURS		HOURS
Anatomy 101F	96	Pathology 101F	161
Anatomy 102F	146	Pathology 102S	21
Biochemistry 101F	115	Pharmacology 101S	106
Embryology 101F	12	Physiology 101F	118
Genetics 101S	16	Psychiatry 101FS	105
Human Growth and Development 101S	36	Public Health 101S	36
Medicine 101F	9	Public Health 102S	15
Medicine 102S	134	Surgery 101S	36
Medicine 103S	207	TOTAL	1,561
Microbiology 101F	102		
Neurobiology and Behavior 101S	90		

MAJOR CLINICAL YEAR

	HOURS		HOURS
Anesthesiology 201	64	Psychiatry 201	130
Dermatology 201	17	Public Health 201	62
Medicine 201	384	Radiology 201	11
Neurology 201-202	192	Radiology 202	11
Obstetrics and Gynecology 201	192	Rehabilitation Medicine 201	10
Ophthalmology 201	18	Surgery 201	156
Orthopedic Surgery 201	64	Surgery 202	36
Otolaryngology 201	18	Urology 201	64
Pediatrics 201	192	TOTAL	1,621

► SPECIAL PROGRAMS

M.D.–PH.D. PROGRAM

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and the Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain a Ph.D. degree in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program.

Applicants interested in the M.D.–Ph.D. program should write for further information and application forms to:

Dr. Lowell M. Greenbaum
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Pharmacology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

PROGRAMS IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin, *Programs in Physical Therapy and Occupational Therapy.*

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN HUMAN NUTRITION

The Faculty of Medicine offers a program of study in nutrition leading to the degree of Master of Science in human nutrition. Prerequisite for admission is an M.D. degree from an approved medical school or a bachelor's degree from a college or university approved by Columbia University. Previous preparation in quantitative analysis, elementary organic chemistry, and elementary biochemistry is recommended for admission. Evidence of personal capability and fitness for this field is also a requirement. In addition to completing 32 credit points in prescribed

courses or their equivalent, the candidate must devote three months full time to research work in nutrition and field work in human nutrition and submit a thesis or essay. This program is designed for those desiring to work in the clinical field of nutrition in health and disease. Further details may be obtained by writing to the Institute of Human Nutrition at 511 West 166th Street, New York, N.Y. 10032, and requesting its bulletin.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

UNIVERSITY PROGRAM OF GENERAL AND CONTINUING EDUCATION IN THE HUMANITIES

For the second consecutive year, the Program of General and Continuing Education in the Humanities is offering a series of courses designed to bring various professional and humanistic disciplines to bear, together, upon matters of lasting human concern and distinct contemporary importance. The Program, which includes both experimental and time-tested forms of general education, is an outgrowth of past developments at Columbia. It is based upon the premise that general education can parallel disciplinary training in the graduate as well as the undergraduate years. In 1974–1975, the Program will offer a group of new and advanced undergraduate courses which will complement such traditional general education courses as Contemporary Civilization, Humanities A and B, Oriental Civilizations, and Oriental Humanities. In addition, graduate courses stressing multicultural approaches, comparative studies, or interdisciplinary work will be available for interested and qualified students.

The courses comprising the Program of General and Continuing Education in the Humanities are open, for the most part and within the normal limits of appropriate class size, to students from all divisions of the University. They are addressed to both the nonspecialist and to the specialist who is willing to venture beyond conventional disciplinary boundaries.

In conformity with the spirit of the Program, students may be permitted to register for either graduate or undergraduate courses. Permission is subject in each case to the assent of the student's adviser and the instructor of the course.

A complete listing of courses offered under the Program will be published as a supplement to the Columbia University bulletins in the late summer of 1974. This list will include courses not otherwise announced in the bulletins.

During the 1974–1975 academic year, the Health Sciences Division of the University will conduct a General Education seminar—*Ethics and Values in Health Care.* The seminar will be open to students and faculty members from all divisions of the University and will include presentations of papers, panel discussions, and reports of study groups. For further information, call 579–3744.

► ENDOWED LECTURESHIPS AND VISITING PROFESSORSHIP

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures will be inaugurated under the University's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible University lectures on some aspect of the general theme of Death and Dying.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

The Postgraduate Program

Opportunities for continuing medical education beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

GRADUATE TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes three major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn him a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

POSTGRADUATE COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and the affiliated hospitals. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Departments of Instruction

ANATOMY

PROFESSOR AND ACTING CHAIRMAN

Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*

PROFESSORS

Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*
Edward W. Dempsey. *B.A., Marietta, 1932; Sc.M., Brown, 1934; Ph.D., 1937; M.A., Harvard, 1946; Sc.D., Marietta, 1954*
Frederick A. Mettler (Neurology). *B.A., Clark, 1929; M.A., Cornell, 1931; Ph.D., 1933; M.D., Georgia, 1937; D.Sc., Clark, 1951*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*
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Rodolfo L. Reyes. *M.D., Santo Tomas (Philippines), 1952*

ASSOCIATE IN CLINICAL REHABILITATION MEDICINE

Cayetano C. Co

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE

Alfred Hess
Sally Wisely

► AT ROOSEVELT HOSPITAL

ASSISTANT CLINICAL PROFESSOR

John J. Untereker. *B.S., Minnesota, 1940; M.D., Louisville, 1953*

► AT ST. LUKE'S HOSPITAL

ASSOCIATE CLINICAL PROFESSOR

Shyh-Jong Yue. *M.D., National College of Medicine (Shanghai), 1938*

ASSISTANT CLINICAL PROFESSOR

Lucille T. Pai. *M.D., Woman's Christian Medical College (Shanghai), 1941*

INSTRUCTOR IN CLINICAL REHABILITATION MEDICINE

Ravi Raj Malpe

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Dong Wook Cho

SURGERY

VALENTINE MOTT PROFESSOR AND JOHNSON & JOHNSON DISTINGUISHED PROFESSOR AND CHAIRMAN

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

► AT PRESBYTERIAN HOSPITAL

PROFESSORS

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David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*

Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
Robert B. Hiatt. *B.S., Wilmington, 1938; M.D., Cincinnati, 1942*
Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
Thomas V. Santulli. *B.S., Columbia, 1935; M.D., Georgetown, 1939*

PROFESSOR OF MICROBIOLOGY

Charles L. Fox, Jr. *B.A., Harvard, 1929; M.D., Long Island, 1934*

PROFESSORS OF SURGICAL PATHOLOGY

Nathan Lane. *B.A., Columbia, 1943; M.D., 1945*
Raffaele Lattes. *M.D., Turin, 1933; Med.Sc.D., Columbia, 1946*

PROFESSORS OF CLINICAL SURGERY

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James R. Malm. *B.A., Princeton, 1949; M.D., Columbia, 1949*
Milton R. Porter. *B.A., Cornell, 1938; M.D., 1941*
Arthur B. Voorhees. *B.A., Virginia, 1943; M.D., Columbia, 1946*

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ASSOCIATE PROFESSORS OF SURGICAL PATHOLOGY

Gordon I. Kaye. *B.A., Columbia, 1955; M.A., 1957; Ph.D., 1961*
Karl Perzin. *B.A., Columbia, 1954; M.D., 1958*
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Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*
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David M. Carberry. *Ph.B., Providence, 1947; M.D., Jefferson, 1951*
Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*
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Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
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Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

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Robert T. Fraser. *B.A., Dartmouth, 1931; M.D., Columbia, 1934*
Conrad Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
Robert McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
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PROFESSOR OF CLINICAL UROLOGY

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ASSISTANT PROFESSOR OF PATHOLOGY

Phillip Tomashefsky. *Ph.D., New York University, 1969*

ASSISTANT PROFESSORS OF CLINICAL UROLOGY

Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*
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ASSISTANT CLINICAL PROFESSORS

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
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Robert Granato
Philip B. Jensen
Robert R. White
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Stanley Bloom
Richard Fadil
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William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
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James W. Vastola

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ASSOCIATE CLINICAL PROFESSOR

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ASSISTANT PROFESSOR OF CLINICAL UROLOGY

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ASSISTANT CLINICAL PROFESSOR

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

INSTRUCTORS IN CLINICAL UROLOGY

Alfred F. Fretz
Waleed G. Maloof
Constantine Photos

INSTRUCTORS *(continued)*

Joseph D. Putignano
Rudolph D. Talarico
Pellegrino J. Tozzo

ASSISTANT IN CLINICAL UROLOGY

Arumbi P. Subramaniam

Internship-Residency Placements: Class of 1974

Allyn, Thomas R.	*Massachusetts General Hospital, Boston, Mass.*	*Medicine*
Antman, Elliott M.	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Arlinghaus, Frank H.	*University of Virginia Hospital, Charlottesville, Va.*	*Rotating 6*
Armstrong, Carol L.	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Bateman, Jane B.	*University of California Hospital, Los Angeles, Calif.*	*Medicine*
Beaumont, Charles B.	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Benton, Edward W.	*Letterman Army Medical Center, San Francisco, Calif.*	*Psychiatry*
Biertuempfel, Hugo C.	*University of California (Davis) Affiliated, Davis, Calif.*	*Medicine*
Blair, Lester W.	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Blake, Jeffrey W.	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Blomstedt, Jeffrey W.	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Bodnar, Andrew G.	*Massachusetts General Hospital, Boston, Mass.*	*Medicine*
Boyle, James J.	*New England Deaconess Hospital, Boston, Mass.*	*Medicine*
Burris, James F.	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Burrows, Warren B.	*St. Luke's Hospital, New York, N.Y.*	*Surgery*
Bush, Clinton G.	*University of Florida Affiliated, Gainesville, Fla.*	*Surgery*
Buttrey, Mary B.	*Los Angeles County Harbor General, Torrance, Calif.*	*Medicine*
Bysshe, Stanley M.	*University of Virginia Hospital, Charlottesville, Va.*	*Surgery*
Call, William H.	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Chang, Stanley	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Ching, Gerald D.S.	*University of Oregon Hospitals and Clinics, Portland, Ore.*	*Pediatrics*
Christensen, Robert D.	*Stanford University Hospital, Stanford, Calif.*	*Pediatrics*
Cody, Hiram S. III	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Collins, Anne F.	*Rhode Island Hospital, Providence, R.I.*	*Rotating 2*
Cornwall, John W.	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Craig, Susan	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Crandall, Marilyn	*San Diego County University, San Diego, Calif.*	*Pediatrics*
Daniels, Charles W.	*Vanderbilt University Affiliated, Nashville, Tenn.*	*Medicine*
Davis, Richard	*Brooke Army Medical Center, San Antonio, Texas*	*Medicine*
Derkac, Wayne M.	*Massachusetts General Hospital, Boston, Mass.*	*Surgery*
Detwiller, John P.	*Mary Imogene Bassett Hospital, Cooperstown, N.Y.*	*Rotating 0*
Diamond, Norman G.	*Case Western Reserve Affiliated, Cleveland, Ohio*	*Surgery*
Eng, John E.	*Graduate Hospital of the Univ. of Pennsylvania, Philadelphia, Pa.*	*Medicine*
Evans, Lewis	*Yale–New Haven Medical Center, New Haven, Conn.*	*Pathology*
Fischel, Robert E.	*Mount Sinai Hospital, New York, N.Y.*	*Medicine*
Fisher, Gregory T.	*St. Luke's Hospital, New York, N.Y.*	*Surgery*
Fishman, Norman	*Barnes Hospital Group, St. Louis, Mo.*	*Medicine*
Ford, John	*University of Michigan Affiliated, Ann Arbor, Mich.*	*Medicine*
Foster, Leroy P.	*Univ. of Chicago Hospitals and Clinics, Chicago, Ill.*	*Medicine*
Gale, Steven S.	*Vanderbilt University Affiliated, Nashville, Tenn.*	*Surgery*
Gladstone, Alan R.	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
Goshorn, Robyn K.	*Indiana University Medical Center, Indianapolis, Ind.*	*Medicine*
Grosh, William W.	*Vanderbilt University Affiliated, Nashville, Tenn.*	*Medicine*
Haberkern, Charles M.	*Childrens Center University Hospital, Seattle, Wash.*	*Pediatrics*
Habif, David V.	*Presbyterian Hospital, New York, N.Y.*	*Surgery*
Hadley, Terence J.	*William Shands Teaching Hospital, Gainesville, Fla.*	*Medicine*
Hagaman, John F.	*University of Michigan Affiliated, Ann Arbor, Mich.*	*Medicine*
Hamilton, Stuart A.	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Higginbottom, Philip	*San Diego County University, San Diego, Calif.*	*Medicine*

Hirsch, Steven R. *New York Hospital, New York, N.Y.* *Surgery*
Hodess, Arthur B. *Hospital of the Univ. of Pennsylvania, Philadelphia, Pa.* *Medicine*
Jeffers, Lennox J. *Harlem Hospital, New York, N.Y.* *Medicine*
Johnson, Robert C. *North Shore-Memorial, Manhasset, N.Y.* *Medicine*
Johnson, Roland *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* *Medicine*
Jones, Wesley E. *Harlem Hospital, New York, N.Y.* *Medicine*
King, William L. *Roosevelt Hospital, New York, N.Y.* *Surgery*
Krinsky, Michael M. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Kuna, Samuel T. *Hospital of the Univ. of Pennsylvania, Philadelphia, Pa.* *Medicine*
Kushner, Frederick G. *Beth Israel Hospital, Boston, Mass.* *Medicine*
Lane, Lewis B. *New York Hospital, New York, N.Y.* *Surgery*
Leach, James *William Shands Teaching Hospital, Gainesville, Fla.* *Pediatrics*
Lesser, Howard A. *San Diego County University, San Diego, Calif.* *Medicine*
Letcher, Robert L. *Harlem Hospital, New York, N.Y.* *Rotating 1*
Levine, Peter R. *Bronx Municipal Hospital Center, New York, N.Y.* *Medicine*
Li, Suzanne *Montefiore Hospital Center, New York, N.Y.* *Medicine*
Lovelace, Jesse B.
New York Medical College–Metropolitan Hospital Center, New York, N.Y. *Surgery*
Lowe, Edward *Bronx Municipal Hospital Center, New York, N.Y.* *Surgery*
Lowe, Frederick W. *Roosevelt Hospital, New York, N.Y.* *Rotating 1*
Luggen, Michael E. *Cincinnati General Hospital, Cincinnati, Ohio* *Medicine*
Lunsford, L. Dade *University of Virginia Hospital, Charlottesville, Va.* *Surgery*
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McCuen, Brooks W. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* *Medicine*
McGrath, Patrick J. *Presbyterian Hospital, New York, N.Y.* *Surgery*
McNeil, Gloria E. *Harlem Hospital, New York, N.Y.* *Medicine*
Marshall, Merville C. *St. Luke's Hospital, New York, N.Y.* *Medicine*
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Mascitelli, Robert J. *New York Hospital, New York, N.Y.* *Medicine*
Matkovic, Christopher S. *Presbyterian University, Pittsburgh, Pa.* *Medicine*
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Neuhut, Denis S. *Mount Sinai Hospital, New York, N.Y.* *Medicine*
Nicholson, John M. W. *St. Vincent's Hospital, New York, N.Y.* *Rotating 6*
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Polkes, Eric W. *North Shore–Memorial Hospital, Manhasset, N.Y.* *Rotating 3*
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Quinn, James A. *St. Vincent's Hospital, New York, N.Y.* *Medicine*
Rand, James A. *Presbyterian Hospital, New York, N.Y.* *Surgery*
Rapoport, Frederick A. *Mary Hitchcock Memorial Hospital, Hanover, N.H.* *Medicine*
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Scharff, Nicholas *Pennsylvania Hospital, Philadelphia, Pa.* *Medicine*
Scholes, John V. *Presbyterian Hospital, New York, N.Y.* *Pathology*
Schroeder, Karl J. *New York State Psychiatric Institute, New York, N.Y.* *Psychiatry*
Schubach, William H. *University of Washington Affiliated, Seattle, Wash.* *Medicine*
Schwartz, Allan *Presbyterian Hospital, New York, N.Y.* *Medicine*
Schwarz, Steven M. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Scott, Gregory E. *Massachusetts General Hospital, Boston, Mass.* *Surgery*
Seals, Jerry E. *Harlem Hospital, New York, N.Y.* *Medicine*
Seigle, Robert L. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Sherman, Lon G. *Boston City Hospital, Boston, Mass.* *Medicine*
Smith, Roderick K. *University of California Hospital, Los Angeles, Calif.* *Surgery*
Solny, Meyer N. *New York Hospital, New York, N.Y.* *Medicine*
Spencer-Green, George T. *Cincinnati General Hospital, Cincinnati, Ohio* *Medicine*
Squire, Gail W. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Stahl, Jeffrey D. *University of Michigan Affiliated, Ann Arbor, Mich.* *Medicine*
Stearns, Gretchen *Presbyterian Hospital, New York, N.Y.* *Medicine*
Stern, Roy H. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Stewart, Andrew F. *Roosevelt Hospital, New York, N.Y.* *Medicine*
Sturgis, Joan *Harlem Hospital, New York, N.Y.* *Medicine*
Tedeschi, Adele C. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Terry, William F. *Duke University Medical Center, Durham, N.C.* *Pediatrics*
Theodore, William H. *Roosevelt Hospital, New York, N.Y.* *Medicine*
Thomashow, Byron M. *Roosevelt Hospital, New York, N.Y.* *Medicine*
Trippel, Stephen B. *Peter Bent Brigham Hospital, Boston, Mass.* *Surgery*
Turco, John H. *Mary Hitchcock Memorial Hospital, Hanover, N.H.* *Medicine*
Turi, Zoltan G. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Van Valkenburg, Charles
State Psychopathic Hospital (University of Iowa), Iowa City, Iowa *Psychiatry*
Wagner, Charles G. *St. Luke's Hospital, New York, N.Y.* *Surgery*
Weber, James K. *Presbyterian Hospital, New York, N.Y.* *Surgery*
Weingarten, Michael S.
Bellevue Hospital Center–New York University, New York, N.Y. *Surgery*
Weiss, Karen S. H. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Westerfield, Samuel Z. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
White, David C. *Johns Hopkins Hospital, Baltimore, Md.* *Surgery*
White, Eric A. *University of Utah Affiliated, Salt Lake City, Utah* *Medicine*
Wilkins, Dennis E. *San Francisco General Hospital, San Francisco, Calif.* *Rotating 0*
Williams, Sue B. *Harlem Hospital, New York, N.Y.* *Medicine*
Wintch, Richard W. *North Carolina Baptist Hospital, Winston-Salem, N.C.* *Surgery*
Winternitz, Charles A. *University of Minnesota Hospitals, Minneapolis, Minn.* *Medicine*
Yee, Ngai Ming *Presbyterian Hospital, New York, N.Y.* *Surgery*

Class of 1975

Ambinder, Roy Mark New York, N.Y.
B.A., Yale, 1971

Andreson, James Lawrence Lexington, Mass.
B.A., Princeton, 1971

Antoine, Clarel Brooklyn, N.Y.
B.S., City College, 1971

Aron, David Clark Bayside, N.Y.
B.A., Columbia, 1971

Bell, Kevin Edmund Hollywood, Fla.

Berger, Paul Robert Garden City, N.Y.
B.A., Duke, 1971

Berliant, Bonnie Sue New York, N.Y.
B.A., Barnard, 1968

Bodnar, Paul Zoltan Flushing, N.Y.
B.A., Johns Hopkins, 1971

Bonagura, Vincent Robert
Staten Island, N.Y.
B.A., Columbia, 1971

Burtenshaw, Bruce Francis Logan, Utah
B.A., Utah State, 1971

Bushong, Charles Robert, Jr.
Short Hills, N.J.
B.A., Princeton, 1971

Bussel, James Bruce New York, N.Y.
B.A., Yale, 1971
Carden, George Alexander III New York, N.Y.
B.A., Yale, 1968
Casden, Richard Stephen Woodmere, N.Y.
B.A., Williams, 1971
Cassebaum, Mary Elizabeth Englewood, N.J.
B.A., Brown, 1970
Chang, Gloria Joan Hong Kong
B.S., McGill, 1971
Chou, James Y. Floral Park, N.Y.
B.S., Columbia, 1965
Ph.D., Washington (St. Louis), 1971
Cohen, Frances Bernard Cambridge, Mass.
B.A., Radcliffe, 1971
Copeland, Brian R. Corning, N.Y.
B.A., Dartmouth, 1971
Corey, Timothy James Kenmore, N.Y.
B.S., Yale, 1971
D'Alessandro, Suzanne Shirley So. Orange, N.J.
B.A., Mount Holyoke, 1971
De Cresce, Robert Patrick Rumson, N.J.
B.S., Boston College, 1971
DeJak, Dorothy Ann Euclid, Ohio
B.A., Case Western Reserve, 1971
Delphin, Ellise New York, N.Y.
B.A., Barnard, 1971
De Petrillo, Michael Albert Methuen, Mass.
B.A., Dartmouth, 1971
Deringer, Paul Martin Allentown, Pa.
B.A., Columbia, 1971
Dickinson, John Carlton E. Aurora, N.Y.
B.A., Amherst, 1971
diSant'Agnese, Paul Anthony Bethesda, Md.
B.A., Amherst, 1971
Dorfman, John Ivor Bayside, N.Y.
B.A., Pennsylvania, 1971
Duval, Laure Lumberville, Pa.
B.A., Antioch, 1967
Ehrlich, Jerome P. New York, N.Y.
B.A., Columbia, 1971
Epstein, Richard L. New York, N.Y.
B.S., SUNY (New Paltz), 1971
Erginoz, Hasan Suha New York, N.Y.
B.S., Columbia, 1968; M.S., 1969
Fein, Henry George Malverne, N.Y.
B.S., Union (New York), 1971
Feit, Alan S. Syracuse, N.Y.
B.E., City College, 1968
M.S., Syracuse, 1971
Fink, Daniel Jonathan Rockaway, N.Y.
B.S., Cornell, 1968
M.S., Massachusetts Institute of Technology, 1970
Fischer, Stuart James Jersey City, N.J.
B.A., Virginia, 1971
Fleischman, Jay Alan Lawrence, N.Y.
B.S., Columbia, 1971
Fleiss, David J. Brooklyn, N.Y.
B.A., Cornell, 1966
M.A., New York University, 1969
Forbes, Ronald Omega Hollis, N.Y.
B.A., Harvard, 1970
Ford, James William Memphis, Tenn.
B.S., Tennessee State, 1971
Fox, Jerry Cullen Mt. Carmel, Ill.
B.S., Illinois, 1969
Freund, John Shelton Forest Hills, N.Y.
B.A., Columbia, 1971
Freund, Peter Ronald Amesbury, Mass.
B.A., Brown, 1971
Friedman, Bruce Alan Brooklyn, N.Y.
B.A., New York University, 1971
Gambert, Steven Ross Brooklyn, N.Y.
B.A., New York University, 1971
Gang, Eli Shimshon Brooklyn, N.Y.
B.A., Columbia, 1971
Gingrich, Susan Alice New York, N.Y.
B.A., Smith, 1968
Gordon, Gerald Schenectady, N.Y.
B.A., Rochester, 1971
Graham, Jimmy East Point, Ga.
B.A., Emory, 1971
Greenberg, Jonathan Somerset, Mass.
B.A., Columbia, 1971
Harris, Marcia Arlene Cambria Heights, N.Y.
B.S., Pace, 1971
Hartmann, Helen Gellhorn Dobbs Ferry, N.Y.
B.A., Minnesota, 1953
Ph.D., California (Berkeley), 1962
Hazell, Samuel Ethiel Bronx, N.Y.
B.S., City College, 1971
Heisler, Kenneth Avery New York, N.Y.
B.A., Columbia, 1971
Henry, Clarence Bruce Bronx, N.Y.
B.A., City College, 1971
Hines, Pamela Scott Cambria Heights, N.Y.
Hofbauer, John David Forest Hills, N.Y.
B.A., Chicago, 1971
Hopkins, B. Smith Urbana, Ill.
B.A., Williams, 1969
James, Maurice Canton, Miss.
B.S., Tougaloo, 1971
Jimenez, Luis New York, N.Y.
B.A., Columbia, 1971
Johnson, Denis Carlysle Brooklyn, N.Y.
B.S., Long Island, 1971
Johnson, Ronald Erik New York, N.Y.
B.S., Yale, 1962
J.D., Harvard, 1965
Kahn, Max Abram Burlington, Vt.
B.A., Harvard, 1969

Kahn, Mitchell Evanston, Ill.
B.A., Chicago, 1971
Karlson, Karen Bolling Bronx, N.Y.
B.S., City College, 1971
Kohn, Edward Ira Elmont, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Konigsberg, Sheldon Miami, Fla.
B.A., Emory, 1971
Konstam, Marvin Amnon Bronx, N.Y.
B.A., Columbia, 1971
Kutscher, Harlan Austin Flushing, N.Y.
B.A., Columbia, 1971
Lenchner, Gregory Steven New York, N.Y.
B.S., City College, 1971
Leung, Lit-King Hong Kong
B.S., McGill, 1971
Linday, Linda Anne New York, N.Y.
B.A., Barnard, 1970
Macko, Michael Bendall Ardsley, N.Y.
B.A., Princeton, 1971
McNair, Alfred Earl, Jr. Collins, Miss.
B.S., Tougaloo, 1971
McNamee, Michael Joseph Danbury, Conn.
B.S., Fordham, 1971
Magnifico, Michael James Trumbull, Conn.
B.S., Fairfield, 1971
Mandelbaum, Joel Brooklyn, N.Y.
B.A., Amherst, 1971
Manger, Jules Neville Greenwich, Conn.
B.A., Lafayette, 1971
Maroldo, Thomas Vincent Bronx, N.Y.
B.A., Columbia, 1971
Martin, Jack Lee New Hyde Park, N.Y.
B.A., Hofstra, 1971
Maxwell, James Thomas East Rochester, N.Y.
B.S., Georgetown, 1971
Merriam, Arnold Edward Cambridge, Mass.
B.A., Harvard, 1971
Meyers, William Clark Andover, Mass.
B.A., Harvard, 1971
Michet, Clement John, Jr. Chicago, Ill.
B.A., Columbia, 1971
Moore, Eric Davidson Tenafly, N.J.
B.A., Harvard, 1969
Motz, Robin Owen Teaneck, N.J.
B.A., Columbia, 1959; Ph.D., 1965
Naidorf, Kenneth Fredric Brooklyn, N.Y.
B.A., Michigan, 1971
Okonmah, Chukwudi Samuel Dayton, Ohio
B.S., Dayton, 1971
Olson, Allan David Syosset, N.Y.
B.A., Cornell, 1971
Parsont, Lawrence Martin Great Neck, N.Y.
B.A., Columbia, 1971
Patel, Daniel Walter Woodmere, N.Y.
B.A., Reed, 1971
Peraza, Jose Emilio Ft. Wayne, Ind.
B.A., Brown, 1971
Perez, Alicia Bronx, N.Y.
B.S., City College, 1971
Perrin, Timothy James Los Angeles, Calif.
B.A., Yale, 1971
Podell, Ronald Mark Elizabeth, N.J.
B.A., Amherst, 1971
Prince, Alice Sara Westfield, N.J.
B.A., Wellesley, 1971
Quinones, Lisandro Brooklyn, N.Y.
B.S., Pratt Institute, 1971
Ramos, Nancy Bronx, N.Y.
B.S., City College, 1971
Richter, Alfred Jason Bronx, N.Y.
B.A., Columbia, 1971
Roberts, Stuart Lee Manhasset, N.Y.
B.A., Colgate, 1971
Robinson, Raymond Paul Short Hills, N.J.
B.A., Ripon, 1971
Rose, Eric Allen Bronx, N.Y.
B.A., Columbia, 1971
Rosenbaum, Robert Leon Brooklyn, N.Y.
B.S., Columbia, 1970
M.S., Pennsylvania, 1971
Rosenstein, Roger G. Hillsdale, N.J.
B.A., Columbia, 1971
Rossi, Gwendolyn Christiane Upper Nyack, N.Y.
B.A., Vassar, 1971
Rothendler, James Adam Scarsdale, N.Y.
B.A., Amherst, 1970
Roye, David Price Norman, Okla.
B.A., Oklahoma, 1971
Rubin, David Albert Teaneck, N.J.
B.A., Brown, 1971
Rusch, Valerie Williams New York, N.Y.
B.A., Vassar, 1971
Salgo, Peter Lloyd Flushing, N.Y.
B.A., Columbia, 1971
Sang, Delia Nai-Yueh Jamaica, N.Y.
B.A., Radcliffe, 1971
Sarewitz, Stephen John So. Orange, N.J.
B.A., Yale, 1971
Savatsky, Gary Joel Swampscott, Mass.
B.A., Dartmouth, 1971
Schned, Alan Robert Ocean, N.J.
B.S., Yale, 1971
Schned, Eric Steven Ocean, N.J.
B.S., Yale, 1971
Sheiman, Ellen Barbara Fairfield, Conn.
B.A., Rochester, 1971
Solomon, William Barney Brooklyn, N.Y.
B.A., Pennsylvania, 1970
Sperber, Jacob E. Great Neck, N.Y.
B.A., California (Berkeley), 1968
Spivak, Carl R. New York, N.Y.
B.A., Amherst, 1971

Stadelnikas, Joseph Robert Philadelphia, Pa.
B.S., United States Military Academy, 1970
Strizak, Alan Marc New York, N.Y.
B.A., Columbia, 1971
Taylor, Stephen Craig New York, N.Y.
B.S., City College, 1971
Topilow, Harvey Warren Hillside, N.J.
Tsapatsaris, Nicholas Peter Lowell, Mass.
B.A., Bowdoin, 1971
Valdes, Michael Edward Alexandria, Va.
B.A., Yale, 1971
Waldron, David Edmund W. Hempstead, N.Y.
B.S., Howard, 1971
Wasserman, Sheldon Marc Yonkers, N.Y.
B.A., Columbia, 1971
Wiesen, Mark Brooklyn, N.Y.
B.A., Yeshiva, 1971
Williams, Charles Thomas II Roslyn, N.Y.
B.A., Hofstra, 1971
Wolff, James Alexander, Jr. New York, N.Y.
B.A., Harvard, 1969
Young, Margaret Ruth Princeton, N.J.
B.A., Wellesley, 1971
Zeitler, Kenneth Dale Malden, Mass.
B.A., Columbia, 1971

Class of 1976

Almas, James Patrick Havre, Mont.
B.A., Stanford, 1972
Azzi, Raymond Lee Northbrook, Ill.
B.S., Massachusetts Institute of Technology, 1972
Barbera, Lisa Gwendolyn Pelham, N.Y.
B.S., Vassar, 1972
Baredes, Soly Brooklyn, N.Y.
B.A., Columbia, 1972
Barnes, Henrietta Nichols Belmont, Mass.
B.A., Radcliffe, 1972
Barnett, Arthur Steven Wheaton, Ill.
B.A., Oberlin, 1972
Binkert, Barbara Lucile Yonkers, N.Y.
B.A., Ohio Wesleyan, 1963
Blatt, Charles Myron Auburn, Me.
B.A., Harvard, 1972
Bowe, John Andrew Ridgewood, N.J.
B.S., Pennsylvania, 1972
Breaux, Barry Ellison Guthrie, Okla.
B.A., Kansas, 1971
Bronzo, Richard Lawrence New Hyde Park, N.Y.
B.A., Hofstra, 1972
Brown, Larry Kenneth College Park, Md.
B.S., Maryland, 1972
Burke, Allan Martin Yonkers, N.Y.
B.A., Haverford, 1971
Carr, Daniel Barry New York, N.Y.
B.A., Columbia, 1968
Castellano, Thomas John Armonk, N.Y.
B.A., Harvard, 1972
Cerny, Kenneth Rudolph Timonium, Md.
B.A., Cornell, 1972
Chaiken, Barry Glenn Short Hills, N.J.
B.A., Yale, 1972
Chan, Florence Yu Hong Kong
B.S., Minnesota, 1972
Charity, Cynthia McClennon New York, N.Y.
B.A., Vanderbilt, 1969
Chernock, David Mark Clifton, Va.
B.A., Rutgers, 1972
Chin, Jean Marguerite Kingston, Jamaica
B.A., Hollins, 1972
Chyun, Yong-Sung Washington, D.C.
B.A., Case Western Reserve, 1972
Clark, Mary Helen Woodcliffe Lake, N.J.
B.A., Middlebury, 1971
Clark, Michelle Olivette Brooklyn, N.Y.
B.A., Hunter, 1972
Cohen, Ronald Scott Lawrence, N.Y.
B.A., Columbia, 1972
Cohn, Kenneth Holland Buffalo, N.Y.
B.A., Rochester, 1972
Daniels, Robert Leo Philadelphia, Pa.
B.A., Princeton, 1972
Davis, Jeffrey Miles Cherry Hill, N.J.
B.A., Princeton, 1972
Diller, Lawrence Howard Forest Hills, N.Y.
B.A., Clark, 1972
Drimmer, Eric Jonathan Harrison, N.Y.
B.A., Harvard, 1972
Dunford, James Vincent, Jr. Garden City, N.Y.
B.A., Syracuse, 1972
Eng, Catherine Suffern, N.Y.
B.A., Wellesley, 1972
Epstein, Nancy Ellen Old Westbury, N.Y.
B.A., Barnard, 1972
Fazio, Joseph Michael Trumbull, Conn.
B.A., College of the Holy Cross, 1971

Feldman, Edward Samuel Mt. Vernon, N.Y.
B.A., Harvard, 1972
Ferris, Warren Orrin San Francisco, Calif.
B.A., Harvard, 1966
M.B.A., Stanford, 1971
Flowers, Cornelius Collins, Mass.
B.S., Southern Mississippi, 1972
Forster, Susan Hall Philadelphia, Pa.
B.A., Radcliffe, 1972
Fox, Ira Jacob Omaha, Neb.
B.A., Harvard, 1972
Frasz, David Paul McHenry, Ill.
B.A., Princeton, 1968
Freeman, Linda Nancy Boston, Mass.
B.A., Pennsylvania, 1972
Friedman, Emanuel Livingston, N.J.
B.S., Newark College of Engineering, 1972
Fung, Yee Fai Hong Kong
B.S.E., Princeton, 1972
Galst, Jay Martin Milwaukee, Wis.
B.S., Wisconsin, 1972
Geller, Edmund Alan Brooklyn, N.Y.
B.A., New York University, 1972
Gilder, David Austin Scarsdale, N.Y.
B.A., Harvard, 1972
Gilhooly, Patricia Eileen West Germany
B.A., Manhattanville, 1972
Ginsberg, Brent William Shawnee Mission, Kansas
B.A., Princeton, 1972
Glaser, Bert Martin Hewitt, N.J.
B.A., New York University, 1971
Glinick, Stephen Ernest Islip, N.Y.
B.A., Bowdoin, 1971
Goldmann, Andrew Milton Buffalo, N.Y.
B.A., Cornell, 1972
Gonzalez, Frederick Andrew Condado, P.R.
B.A., Boston, 1972
Graham, Toney Lake City, S.C.
B.S., Claflin, 1972
Greenberg, Rosalie Brooklyn, N.Y.
B.A., New York University, 1972
Gregersen, Peter Kim Englewood, N.J.
B.S., Johns Hopkins, 1972
Groopman, Jerome Elliot Little Neck, N.Y.
B.A., Columbia, 1972
Gross, Gary Edward Sausalito, Calif.
B.A., Swarthmore, 1970
Gwirtsman, Harry Edward Springfield, N.J.
B.A., Yale, 1972
Hammill, Hunter Adrian Haworth, N.J.
B.S., Boston College, 1971
Harbison, Madeleine DiuVerre Altus, Okla.
B.A., Wellesley, 1971
Hoppock, John Scarborough, Jr. Wilmette, Ill.
B.A., Princeton, 1968
Horowitz, Pamela Ann New York, N.Y.
B.A., Stanford, 1968
Hurwitz, Shepard Raphael New Rochelle, N.Y.
B.A., Columbia, 1972
Ilson, Joyce Bronx, N.Y.
B.S., City College, 1972
Israel, Andrew Glenn Beverly Hills, Calif.
B.A., Stanford, 1972
Jacob, Matteethra C. Cambridge, England
B.S.E.E., Madras (India), 1970
M.S., Imperial College (London), 1971
Jaffe, Judith Liza Rego Park, N.Y.
B.A., Barnard, 1972
Jinadu, Babatunde A. Lagos, Nigeria
B.S., Central State (Ohio), 1972
Johnston, Charles Eugene II Los Angeles, Calif.
B.A., Yale, 1971
Kalmanowitz, Stuart Mark Deal, N.J.
B.A., Princeton, 1972
Karp, George Isaac Fair Lawn, N.J.
B.A., Columbia, 1972
Kaunitz, Jonathan Davidson Westport, Conn.
B.A., Columbia, 1972
Kinaszczuk, Tom Milltown, N.J.
B.A., Princeton, 1972
Kleaveland, Joseph Patrick Muskegon, Mich.
B.S., Michigan, 1972
Koster, Beth Ellen Port Chester, N.Y.
B.A., Smith, 1973
Kremberg, Marvin Roy Rockaway Park, N.Y.
B.A., Brooklyn, 1972
Kuchera, James Joseph Paramus, N.J.
B.S., Scranton, 1972
Kung, Esther Ho New York, N.Y.
B.A., Hunter, 1972
Leder, Mary Ellen Brooklyn, N.Y.
B.A., Rochester, 1972
Lefkowitch, Jay Harris New York, N.Y.
B.A., Clark, 1972
Leiter, Bruce Edmund Portland, Me.
B.S., Dartmouth, 1972
Lopyan, Stanley Arnold Flushing, N.Y.
Queens College
Lowe, Barbara Rose New York, N.Y.
B.S., Tufts, 1972
Luber, Murray Philip Bala Cynwyd, Pa.
B.A., Pennsylvania, 1972
McDonald, Marguerite Bridget New York, N.Y.
B.A., Manhattanville, 1972
McGuire, Stephen Albert Idaho Falls, Idaho
B.S., Idaho, 1970
M.S., Michigan State, 1972

McNally, James William Hamilton, Ohio
B.S., Massachusetts Institute of Technology, 1972
Mandelblatt, Jeanne Susan Flushing, N.Y.
B.A., Southern California, 1972
Marcal, Jose Manuel Hong Kong
B.A., Hamilton, 1972
Marshall, Harry Jay III Madison, Wis.
B.S., Massachusetts Institute of Technology, 1969
Mendoza, Francis Xavier Middletown, Conn.
B.S., Polytechnic Institute of Brooklyn, 1968
M.S., New York University, 1970
Merrell, Woodson Charles Chatham, N.J.
B.A., Amherst, 1971
Meyers, Robert Allen Houston, Texas
B.A., Dartmouth, 1972
Mitchell, William Anderson, Jr. Huntington, N.Y.
B.A., Pennsylvania State, 1972
Mixter, Roger Milwaukee, Wis.
B.A., Amherst, 1971
Mount, Philip Maxwell Bronxville, N.Y
B.A., Oberlin, 1963
M.A., Wake Forest, 1968
Ph.D., Tulane, 1972
Neugut, Alfred I. Brooklyn, N.Y.
B.A., Columbia, 1972
Nieves, Walter Leo Bronx, N.Y.
B.S., City College, 1972
Nolan, Brian Thomas Chicago, Ill.
B.S., Yale, 1972
Ogilvie, Orin Howard Salt Lake City, Utah
B.S., Utah, 1972
Osborn, Emilie Heffron Sisson Dallas, Pa.
B.A., Radcliffe, 1969
Ostrer, Harry Belmont, Mass.
B.S., Massachusetts Institute of Technology, 1972
Packer, Andrew J. Eastchester, N.Y.
B.A., Princeton, 1972
Padron, Sebastian Teobaldo San Juan, P.R.
B.A., Indiana, 1971
Parris, Oneall Eucline Barbados, W.I.
B.S., Yale, 1972
Peters, William Paul Kenmore, N.Y.
B.S., B.S.B.A., Pennsylvania State, 1972
Phillips, Malcolm Charles Valley Stream, N.Y.
B.A., Amherst, 1972
Ratner, Clifford Marc Harrison, N.Y.
B.A., Pennsylvania, 1967
Romagnoli, Mario Frank Bronx, N.Y.
B.S., Fordham, 1972
Rosenberg, Robert Alan Bronx, N.Y.
B.A., Columbia, 1972
Rosenthal, Stephen Martin W. Hartford, Conn.
B.A., Yale, 1972
Rosenwasser, Melvin Paul Walden, N.Y.
B.A., Johns Hopkins, 1972
Rosner, Saran Saul New Rochelle, N.Y.
B.A., Dartmouth, 1972
Ruderman, Marvin Ira Great Neck, N.Y.
B.A., Pennsylvania, 1972
Ruestow, Paul Charles Old Westbury, N.Y.
B.A., Princeton, 1972
Salmon, Jane Eva Fort Lee, N.J.
B.A., New York University, 1972
Sanchez, Guillermo Rafael So. Orange, N.J.
B.S., Seton Hall, 1966
Ph.D., Columbia, 1970
Schechter, Clyde Barry Cambridge, Mass.
B.A., Columbia, 1967
Schiffman, Robert L. Staten Island, N.Y.
B.A., Harvard, 1972
Schneider, Harry David New York, N.Y.
B.A., City College, 1966
M.A., Queens, 1971
Ph.D., City College, 1972
Schneider, Louisa Bea Laurelton, N.Y.
B.S., Queens, 1971
Schnur, Michael Jeffrey Queens, N.Y.
B.A., New York University, 1972
Schoen, Robert Taylor Bronxville, N.Y.
B.A., Harvard, 1972
Schultz, Robert Walter Hicksville, N.Y.
B.S., Notre Dame, 1972
Shoji, Elaine Carole Gardena, Calif.
B.S., California (Irvine), 1972
Silverman, David Alan New York, N.Y.
B.A., Columbia, 1972
Steinberger, Alfred Abe New York, N.Y.
B.S., City College, 1972
Sternschein, Michael Jon New York, N.Y.
B.A., Oberlin, 1970
Stuchin, Steven Andrew New Rochelle, N.Y.
B.A., Yale, 1972
Talon, Neil Stuart Southfield, Mich.
B.A., Michigan, 1972
Taylor, Howard Passaic, N.J.
B.S., Hobart, 1972
Turner, Robert Pearson Longmeadow, Mass.
B.A., Princeton, 1972
Ursell, Philip Christman Chevy Chase, Md.
B.A., Haverford, 1972
Van der Heide, Douglas John Berkeley, Calif.
B.A., California (Berkeley), 1972
Vernon, Mary Emma Louise Campobello, S.C.
B.S., South Carolina State, 1972
Veteran, Frank Anthony Tarrytown, N.Y.
B.A., Harvard, 1972

Welch, Elizabeth Ann Rye, N.Y.
B.A., New York University, 1972
Wilets, Greg Allen Chevy Chase, Md.
B.A., Wisconsin, 1972
Wilkinson, Dorothy Veronica Bronx, N.Y.
B.A., New York University, 1972
Wong, Kamehameha Kai-Min, Jr. Timonium, Md.
B.A., Johns Hopkins, 1972
Wood, John Chase Yardley, Pa.
B.A., Columbia, 1972
Woodriffe, Phillipa Gloria Laurelton, N.Y.
B.S., Molloy, 1972
Yaremchuk, Michael John Detroit, Mich.
B.A., Yale, 1972
Yergan, John Williston Park, N.Y.
B.A., Columbia, 1972
Zoltick, Jerel Mark Trenton, N.J.
B.A., Princeton, 1972

Class of 1977

Aaronson, Michael Jay Miami, Fla.
B.A., Cornell, 1973
Alexander, Frederick, Jr. Gladwyne, Pa.
B.A., Dartmouth, 1973
Arkow, Stan David Ozone Park, N.Y.
B.S., SUNY (Stony Brook), 1973
Ascher, Elizabeth Kasen Lexington, Mass.
B.A., Yale, 1973
Auchincloss, Elizabeth Lowell Ridgewood, N.J.
B.A., Yale, 1973
Baker, Robert William Scarsdale, N.Y.
B.A., Princeton, 1973
Ballantyne, Garth Hadden Port Washington, N.Y.
B.A., Harvard, 1973
Barsa, John Joseph Orangeburg, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Bassett, Susan Bronxville, N.Y.
B.S., Mount Holyoke, 1973
Bauer, Bertha Ann Brooklyn, N.Y.
B.A., Smith, 1973
Benson, Mitchell Clark Hewlett, N.Y.
B.S., Union (New York), 1973
Berliner, Susan Englewood, N.J.
B.A., Barnard, 1973
Bern, Lauren Berkeley, Calif.
B.A., California (Berkeley), 1973
Bhark, Philip Emerson, N.J.
Columbia
Bock, John Edward Swann Harbor, Md.
B.A., Princeton, 1973
Bodkin, Cordy Elaine Palo Alto, Calif.
B.A., Michigan, 1967
Brown, Richard Paul Alexandria, Va.
B.A., Virginia, 1973
Buchholz, Gary David San Jose, Calif.
B.S., California (Davis), 1970
Calabrese, Daniel Anthony Brooklyn, N.Y.
B.S., New York University, 1971
M.S., Massachusetts Institute of Technology, 1973
Cambria, Richard Paul Roselle, N.J.
B.A., Holy Cross, 1973
Cervoni, Francisco Miguel San Juan, Puerto Rico
B.S., Le Moyne, 1972
Chamberlain, Marc Charles Berkeley, Calif.
B.A., California (Berkeley), 1973
Coonley, Craig Joseph Schenectady, N.Y.
B.S., Union (New York), 1973
Coverton, Ronald Wayne Richmond, Va.
B.A., Virginia, 1973
Davis, Jeffrey Paul Madison, Wis.
B.S., Wisconsin, 1968; Ph.D., 1972
Demartini, Paul Dean Englewood, N.J.
B.A., Columbia, 1972
Derenoncourt, Frantz Joseph Brooklyn, N.Y.
B.A., Columbia, 1972
Dietz, Frederick Richard Akron, Ohio
B.A., Harvard, 1973
Dodds, Peter Robert Stroudsburg, Pa.
B.A., East Stroudsburg State, 1973
Doubilet, Peter Michael Montreal, Canada
B.S., McGill, 1969
Ph.D., Massachusetts Institute of Technology, 1973
Dreher, Gerald Francis Brooklyn, N.Y.
B.A., Holy Cross, 1973
Dufresne, Craig Roger Shrewsbury, Mass.
B.A., Vermont, 1973
Dunaif, Andrea Elizabeth White Plains, N.Y.
B.A., Sarah Lawrence, 1973
Dworkin, Paul Adams, Mass.
B.S., Rensselaer Polytechnic Institute, 1972; M.S., 1973

Fanucchi, Michael Paul San Francisco, Calif.
B.S., Stanford, 1973
Fingerhut, James William Berkeley, Ill.
B.S., Illinois, 1973
Fitz-James, Ingrid Anne-Marie New York, N.Y.
B.A., Sarah Lawrence, 1973
Fox, James Lester, Jr. Wilmette, Ill.
B.A., Bowdoin, 1973
Frank, Susan Judith Roslyn, N.Y.
B.A., Pennsylvania, 1972
Garcia, Carmen Josefina Passaic, N.J.
B.A., Rutgers, 1973
Gerber, Diane Louise Park Forest, Ill.
B.A., Vassar, 1973
Goldman, Ira Steven Jericho, N.Y.
B.A., Rochester, 1973
Gorman, Jack Matthew Monsey, N.Y.
B.A., Pennsylvania, 1973
Gould, Robert John Patchogue, N.Y.
B.A., Tufts, 1973
Greenebaum, Ellen Scarsdale, N.Y.
B.A., Barnard, 1973
Griggs, Edward Albert, Jr. Livingston, N.J.
B.S., Yale, 1973
Grodman, Marc Dennis Newark, N.J.
B.A., Pennsylvania, 1973
Gualtieri, Richard John Brooklyn, N.Y.
B.A., Columbia, 1973
Gustafson, Gregory Miner Brookside, N.J.
B.A., Yale, 1971
Haasler, George Bruce Buffalo, N.Y.
B.A., SUNY (Buffalo), 1973
Halleran, David Ros New York, N.Y.
B.S., Villanova, 1973
Hammond, David B. New York, N.Y.
B.A., Rochester, 1973
Hayes, Frederick Dwayne New York, N.Y.
B.S., Pittsburgh, 1969
Heldman, Jay Perry Yonkers, N.Y.
B.A., Columbia, 1973
Heller, Caren Alyson Braintree, Mass.
B.A., Radcliffe, 1973
Henry, Ronald Maurice Washington, D.C.
B.S.E.E., North Carolina State, 1971
Hensel, Bruce Martin Bayside, N.Y.
B.A., California (Los Angeles), 1971
Herron, Merinda Juanita Atlanta, Ga.
B.A., Pennsylvania, 1973
Hillyard, David Randall Ogden, Utah
B.S., Utah, 1973
Hoffman, Mark Alan New Orleans, La.
B.A., Amherst, 1972
M.S., Tulane, 1973
Hutson, Glenda New York, N.Y.
B.S., Tougaloo, 1973
Jorgensen, Jacob William III Fair Oaks, Calif.
B.S., Massachusetts Institute of Technology, 1973
Juncos, Jorge Luis Bayamon, Puerto Rico
B.S., Puerto Rico, 1973
Kane, Mary Agnes New York, N.Y.
B.A., Barnard, 1973
Kantor, Lauren Woodbury, N.Y.
B.A., Pennsylvania, 1973
Kaufmann, Charles Arthur Forest Hills, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Kinney, Walter Keith Ardsley, N.Y.
B.A., Vassar, 1973
Knobler, Joanna Gabin New York, N.Y.
B.A., Radcliffe, 1972
Kopelman, Rima Gail Jericho, N.Y.
B.A., Barnard, 1971
Kopelson, Gene Oceanside, N.Y.
B.A., Princeton, 1973
Kritzler, Robert Kimball Saddle River, N.J.
B.A., Johns Hopkins, 1973
Kroop, Steven Arthur Brooklyn, N.Y.
B.S., Yale, 1973
Kutscher, Austin Harrison, Jr. Scarsdale, N.Y.
B.A., Columbia, 1973
Lane, Edward Michael Plandome, N.Y.
B.A., Columbia, 1972
Lattimer, Jon Kingsley Englewood, N.J.
B.A., Dartmouth, 1973
Legant, Patricia Albuquerque, N.M.
B.A., Stanford, 1968
Ph.D., Yale, 1973
Leibowitz, David Steven Berkeley, Calif.
B.A., Columbia, 1972
Levine, Joel Barry N. Bellmore, N.Y.
B.A., Pennsylvania, 1973
Lewis, Neville Barrington Norwalk, Conn.
B.S., Hartford, 1973
Lewis, Vivian Chicago, Ill.
B.A., Radcliffe, 1973
Light, Susan Ellen Pittsburgh, Pa.
B.A., Clark, 1973
Lindsey, Ronald Wayne Lakewood, N.J.
B.A., Yale, 1972
Liu, John Peter Rosedale, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Makadon, Harvey Jay Philadelphia, Pa.
B.A., Cornell, 1969
Matzkin, Ellen Melrose Park, Pa.
B.A., Smith, 1969
Meehan, Justine Mary Plandome Manor, N.Y.
B.A., Newton College of the Sacred Heart, 1970
Mellow, Nancy Lynn Chicago, Ill.
B.A., Illinois, 1967

Mendes, Donna Maria Roosevelt, N.Y.
B.A., Hofstra, 1973
Milgrom, Martin Louis Snyder, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Mitchell, William James Lake Stevens, Wash.
B.A., Washington, 1973; B.S., 1973
Mottow, Linda Susan Brookline, Mass.
B.A., Radcliffe, 1973
Mouradian, Wendy Elyse Brooklyn, N.Y.
B.A., Wellesley, 1971
M.S., Massachusetts Institute of Technology, 1973
Natanson, Charles Milwaukee, Wis.
B.A., Wisconsin, 1972
Nath, Barbara Joyce Purchase, N.Y.
B.A., Smith, 1964
Orloff, Paul Norman Brooklyn, N.Y.
B.A., Syracuse, 1968
Otto, Nancy Ruth Everett, Wash.
B.A., SUNY (Albany), 1970
Pachtman, Erica Phoenix, Aríz.
B.A., Vassar, 1972
Pamelia, Frank Xavier Scranton, Pa.
B.S., Scranton, 1973
Pan, Ellen Day-mei New York, N.Y.
B.A., Barnard, 1973
Perez, Jose Ramon Kings Park, N.Y.
Duke University
Perrone, Howard Francis New York, N.Y.
B.A., Columbia, 1973
Phillips, Rogsbert Frenzel Decatur, Ga.
B.S., Georgia, 1970
M.S., Bridgeport, 1972
Prusnofsky, Leslie Brooklyn, N.Y.
B.S., Brooklyn, 1973
Pugh, George Arthur Youngstown, Ohio
B.A., Harvard, 1973
Rago, Thomas Anthony Trumbull, Conn.
B.A., Columbia, 1973
Recht, Lawrence David Bronx, N.Y.
B.A., New York University, 1973
Roberts, Thomas Elberry III Saratoga, Calif.
B.S., Stanford, 1973
Rodriguez-Villa, Fernando Jose Rio Piedras, Puerto Rico
B.S., Puerto Rico, 1973
Roen, Janet Leslie New York, N.Y.
B.A., Radcliffe, 1973
Rohrer, Richard Jeffrey Cincinnati, Ohio
B.S., Yale, 1973
Rose, David Forest Hills, N.Y.
B.A., Haverford, 1973
Rosenthal, Linda Ellen San Carlos, Calif.
B.A., Stanford, 1973
Rosenwein, Marilyn Fay Kew Gardens, N.Y.
B.S., Clark, 1973
Rubin, Mark New York, N.Y.
Harvard
Rubinovitz, Michael S. New York, N.Y.
B.A., Yale, 1969
Ruderman, William Brandon Demarest, N.J.
B.A., Rochester, 1972
Sacks, Frank Martin Boston, Mass.
B.S., Brown, 1970
Sampson, Jas de Seabron Jacksonville, Fla.
B.A., Yale, 1973
Schaefer, Daniel William Los Angeles, Calif.
B.A., California (Los Angeles), 1972
Schuster, Allen Howard Kew Gardens, N.Y.
B.A., Columbia, 1972; M.A., 1973
Scolnick, Barbara Bronx, N.Y.
B.S., Barnard, 1973
Shangold, Gary Alan Perth Amboy, N.J.
B.A., Pennsylvania, 1973
Shapiro, Lee Schulman Paterson, N.J.
B.A., Yale, 1973
Siegel, Alice Jo Roslyn Heights, N.Y.
B.A., Smith, 1968
M.A., Columbia, 1970
M.A., Teachers College, 1971
Silverstein, Marc David Framingham, Mass.
B.S., Massachusetts Institute of Technology, 1971
Smith, Evelyn Meriden, Conn.
B.A., Smith, 1973
Smith, Steven Philip Murray, Ky.
B.A., Columbia, 1973
Spain, William Jonathen New York, N.Y.
B.S., Wisconsin, 1973
Spiro, Alan Hugh Bronx, N.Y.
B.A., New York University, 1973
Spotnitz, William David New York, N.Y.
B.A., Harvard, 1973
Stamm, Patricia Jane New York, N.Y.
B.A., Barnard, 1970
Stern, Robert Gary Hewlett, N.Y.
B.A., Harvard, 1973
Stillman, Margaret Ann Bay Shore, N.Y.
B.A., Yale, 1973
Stone, Ross G. Pottsville, Pa.
B.A., Yale, 1973
Streicher, Eric Michael Wilmington, Del.
B.A., Middlebury, 1973
Thorsen, Marie Kristin Milwaukee, Wis.
B.A., Wisconsin, 1969
Tropper, Pamela Joan Jericho, N.Y.
B.A., Brandeis, 1972
Vaida, George Arthur Rio Piedras, Puerto Rico
B.A., Fordham, 1972
Valente, Philip Thomas Long Island City, N.Y.
B.A., Columbia, 1971
Vasquez, Raphael Luis Bronx, N.Y.
B.S., City College, 1965

Washington, Eleby Rudolph Maplewood, N.J.
B.A., Brown, 1973
Weathers, Susan Wheeler Scarsdale, N.Y.
B.A., Oberlin, 1972
Webb, Hueldine Locust Grove, Ga.
B.S., Spelman, 1973
Williams, Antoinette Helena Hollis, N.Y.
B.A., Fisk, 1972
Wollack, Jan Brian Park Ridge, N.J.
B.S., Yale, 1973
Woolf, Paul Kenneth Worcester, Mass.
B.A., Brandeis, 1973
Ying, Christopher Y. Ridgewood, N.J.
B.S., Massachusetts Institute of Technology, 1973
Zachary, Kirk Jonathon Brooklyn, N.Y.
B.S., New York University, 1973
Zarian, Lawrence Peter Bayside, N.Y.
B.A., Columbia, 1973

Class of 1978

Aberizk, William Joseph, Jr. Lawrence, Mass.
B.A., Harvard, 1974
Addonizio, Gerard Carmen Medford, Mass.
B.A., Columbia, 1974
Albertsen, Peter Christian Tenafly, N.J.
B.A., Princeton, 1974
Allen, Julian Lewis Bethlehem, Pa.
B.A., Columbia, 1974
Arnold, Linda Jennette Menlo Park, Calif.
B.A., Stanford, 1974
Arzeno, George Santurce, Puerto Rico
B.S., Massachusetts Institute of Technology, 1974
Ashwell, Jonathan David Bethesda, Md.
B.A., Colgate, 1974
August, Jeremy West Nyack, N.Y.
B.S., Johns Hopkins, 1974
Bassett, Mary T. New York, N.Y.
B.A., Radcliffe, 1974
Benvenisty, Alan Ira Merrick, N.Y.
B.S., Union (Schenectady), 1974
Berlinsky, Elaine Carol Providence, R.I.
B.A., Brown, 1970; M.S., Harvard, 1972
Bisserup, Robert S. G. Queens, N.Y.
Queens
Bleicher, Robert Howard Fair Lawn, N.J.
B.S., Michigan, 1974
Bobryk, Eileen Hilton Bronx, N.Y.
B.A., Lehman, 1974
Bohler, Henry C. L. Hampton, Va.
B.S., Hampton Institute, 1974
Brauntuch, Glenn R. Greenwich, Conn.
B.A., Rochester, 1974
Cantor, Richard Stephen Roslyn, N.Y.
B.A., Rochester, 1974
Capeci, Ellen Marianne Pelham, N.Y.
B.A., Wellesley, 1974
Capone, Robert Anthony Jackson Heights, N.Y.
B.A., New York University, 1974
Carpenter, Duncan B. Scarsdale, N.Y.
B.A., Bowdoin, 1974
Chen, Clarence Lee Chicago, Ill.
B.A., Oberlin, 1970
Cohen, Mark William New Rochelle, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Comstock, Marcia L. Keene, N.H.
B.A., Manhattanville, 1974
Daly, Jennifer Susan Kettering, Ohio
B.A., Sarah Lawrence, 1973
Daniel, Samuel Jeremiah Bronx, N.Y.
B.A., Queens, 1974
DiSalvo, Donald Nicholas Hartsdale, N.Y.
B.A., Williams, 1974
Donnelly, Christine Marie Kew Gardens, N.Y.
B.A., Manhattanville, 1973
Edgerton, Ada Badillo Forest Hills, N.Y.
B.S., St. John's (New York), 1974
Fein, Alan Bruce Malverne, N.Y.
B.A., Rochester, 1974
Fithian, Thomas Edward Bridgeton, N.J.
B.A., Pennsylvania, 1974
Flood, Stephen J. Fond du Lac, Wisc.
B.A., Rippon, 1973
Fogelquist, Jan Elizabeth Dhahran, Saudi Arabia
B.A., Barnard, 1973
Frenk, Ellen New York, N.Y.
B.A., New York University, 1974
Friedman, Joseph Harold Yonkers, N.Y.
B.A., Chicago, 1969
Garber, Mary Deborah Webster, N.Y.
B.A., Princeton, 1974
Goodrich, James Tait Laguna Beach, Calif.
B.S., California (Irvine), 1974
Hansen, Darcyjeanne Allendale, N.J.
B.A., Williams, 1974
Hartwig, George James San Francisco, Calif.
B.A., California (Berkeley), 1972
M.A., 1973
Heiken, Jay Paul N. Arlington, N.J.
B.A., Williams, 1974

Henrikson, Karl Eric Stamford, Conn.
B.A., Vermont, 1973
Herter, Geoffrey Elvin Manchester, Mass.
B.A., Harvard, 1973
Himmelstein, David Urius New York, N.Y.
B.A., Bennington, 1972
Hoagland, Peter Maclean Denver, Colo.
B.A., Harvard, 1974
Hollander, Ellen Lynne Forest Hills, N.Y.
B.A., Harpur, 1969
Horner, Thomas Martin Pittsburgh, Pa.
B.A., Columbia, 1974
Hritz, Ann Jo New York, N.Y.
B.S., SUNY (Buffalo), 1969
Hutt, Cheryl Sue Brooklyn, N.Y.
B.A., Barnard, 1974
Hyams, David Michael Miami, Fla.
B.A., Vassar, 1974
Jones, Ellen Elizabeth Frankfort, N.Y.
B.A., Smith, 1974
Jordan, James Lewis Stanford, Calif.
B.S., Stanford, 1974
Kaunitz, Andrew Moss Westport, Conn.
B.A., Brown, 1974
Kerin, Douglas W. New York, N.Y.
B.A., Pennsylvania, 1974
Kertzner, Robert Michael Brightwaters, N.Y.
B.A., Cornell, 1974
Kesselbrenner, Michael B. New York, N.Y.
B.A., Columbia, 1974
Kim, Ben Jackson Heights, N.Y.
B.A., Harvard, 1974
Koppel, Barbara Sue Fort Plain, N.Y.
B.A., Rochester, 1974
Kopynec, Bohdan William Deposit, N.Y.
B.A., SUNY (Binghamton), 1974
Krilov, Leonard Roy Bronx, N.Y.
B.A., Brandeis, 1973
LaBove, Phillip Stuart Deal, N.J.
B.S., Trinity (Connecticut), 1974
Lander, Richard Harding New York, N.Y.
B.A., Yale, 1968
Langa, Victoria Margaret Cherry Hill, N.J.
B.A., Rutgers, 1974
Larach, David Ross Princeton, N.J.
B.A., Princeton, 1974
Larmon, Steven Sigurd Olean, N.Y.
B.A., Dartmouth, 1974
Lauer, Robert Charles Madison, N.J.
B.S., Bucknell, 1968
Lawrence, Denise E. New York, N.Y.
B.A., Manhattanville, 1968
Lemberg, Steven Bayside, N.Y.
B.S., SUNY (Stony Brook), 1974
Lessing, David Portland, Ore.
B.A., Columbia, 1974
Levine, Stewart Cedarhurst, N.Y.
B.A., New York University, 1974
Lim, Suzanne Lee New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Logusch, Eugene Walter Elmhurst, N.Y.
B.A., Columbia, 1974
Magidson, Jory Glen Tenafly, N.J.
B.A., Rochester, 1974
Mandelbaum, David E. New York, N.Y.
B.A., Columbia, 1974
Manning, Reginald Eugene Brooklyn, N.Y.
B.A., Columbia, 1974
Manson, Carolyn Sue Cleveland Heights, Ohio
B.A., Yale, 1973
Marchand, Babette Greenwich, Conn.
B.A., Pennsylvania, 1973
Margulis, Elynne Beth Williston Park, N.Y.
B.S., Yale, 1974
Meisler, William Jay Teaneck, N.J.
B.A., Columbia, 1974
Melnick, David Alan Valley Stream, N.Y.
B.A., Columbia, 1974
Meyers, Peter Kevin Staten Island, N.Y.
B.A., Columbia, 1974
Monsanto, Enrique H. Whitestone, N.Y.
B.A., Queens, 1972
Moore, Alfred Denton Blackville, S.C.
B.S., Voorhees, 1974
Murphy, William Ignatius III Pasadena, Calif.
B.S., Fordham, 1967
Nagelberg, Steven Brooks Tarrytown, N.Y.
Bucknell
Neil, Claudette Hope Boston, Mass.
B.A., Princeton, 1974
Nelson, Steve Monroe, N.Y.
B.S., SUNY (Stony Brook), 1974
Nepola, James Vincent Ridgewood, N.J.
B.S., Yale, 1974
Newmark, Jonathan Maplewood, N.J.
B.A., Harvard, 1974
Oshiyoye, Adekunle E. Lagos, Nigeria
B.S., Howard, 1974
Ostow, Abigail Ruth Riverdale, N.Y.
B.A., Wellesley, 1974
Owens, Lance Stuart Salt Lake City, Utah
B.A., Utah State, 1974
Paetzold, Nancy M. Massapequa Park, N.Y.
B.A., Adelphi, 1973
Pai, Jane Elizabeth New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Phillips, Arnold Morris New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974

Piro, Philip A. Encino, Calif.
B.S., Yale, 1974
Polan, H. Jonathan Merion, Pa.
B.A., Princeton, 1974
Propper, Michael Steven Westbury, N.Y.
B.A., B.S., Pennsylvania, 1974
Puleo, Peter Robert Brooklyn, N.Y.
B.A., Princeton, 1974
Rak, Ihor Wolodymyr Astoria, N.Y.
B.S., City College, 1974
Rattner, Susan Lee Troy, N.Y.
B.S., Union (Schenectady), 1974
Reife, Ross Alexander Hillside, N.J.
B.A., Pennsylvania, 1974
Reynard, Michael Daly City, Calif.
B.S., Stanford, 1974
Riester, Carolyn E. Huntingdon Valley, Pa.
B.S., Yale, 1974
Roberts, Richard Scott Pearl River, N.Y.
B.S., Colgate, 1974
Robinson, Joyce Ann Talladega, Ala.
B.A., Talladega, 1974
Rock, Ira Glenn New York, N.Y.
B.A., Lawrence, 1974
Rosecan, Jeffrey Sanford St. Louis, Mo.
B.A., Columbia, 1974
Rosen, Barry L. Highland Park, Ill.
B.S., Haverford, 1974
Rosenthal, Robert Louis Sands Point, N.Y.
B.A., Yale, 1974
Ruby, Steven Todd Boston, Mass.
B.A., Brandeis, 1974
Santulli, Thomas Vincent East Greenwich, R.I.
B.A., Columbia, 1966
Schackman, Lynn Debra New York, N.Y.
B.S., Yale, 1974
Schaffner, Andrea New York, N.Y.
B.A., Barnard, 1973
Schanck, Carolyn Agnes Albertson, N.Y.
B.S., Mount Saint Vincent, 1974
Schwartz, Lawrence Alan Scarsdale, N.Y.
B.A., Rochester, 1974
Seaman, Cheryl Tenafly, N.J.
M.A., Chicago, 1971
Sell, Elizabeth Kay East Lansing, Mich.
B.A., Michigan State, 1967
Sharp, Thomas Glinn Houston, Texas
B.A., Harvard, 1974
Sherwood, James Alan DeWitt, N.Y.
B.A., Hamilton, 1974
Sibley, Robert Emmett Staten Island, N.Y.
B.S., Notre Dame, 1974
Silver, Daniel Henry Los Angeles, Calif.
B.A., California (Berkeley) 1974
Soffer, Mark Jay Jackson Heights, N.Y.
B.A., Yale, 1972
Soong, Hunson Silver Spring, Md.
B.S., Massachusetts Institute of Technology, 1971
Sporn, Aaron Adolph Rosedale, N.Y.
B.S., SUNY (Stony Brook), 1974
Stein, Bruce Elliot Freeport, N.Y.
B.A., Pennsylvania, 1974
Stein, Douglas George Northboro, Mass.
B.S., Tufts, 1974
Steiner, Mark Edward Bloomfield Hills, Mich.
B.A., Harvard, 1972
Stetz, Dean Edward Bayside, N.Y.
B.A., Columbia, 1974
Stiff, Jacqueline Elaine Brooklyn, N.Y.
B.S., Cornell, 1974
Szpaizman, Sergio Bronx, N.Y.
B.A., Lehman, 1974
Tergis, Dorian Christopher Riverdale, N.Y.
B.S., Columbia, 1974
Thompson, Mindy Jennifer New York, N.Y.
B.A., Bryn Mawr, 1971
Trommer, Barbara Lois Kew Gardens, N.Y.
B.A., Queens, 1974
Tucker, James Newman Elkins Park, Pa.
B.S., Tufts, 1974
Velazquez, Nelvis Hialeah, Fla.
B.A., Barnard, 1974
Wagman, Lawrence David Hempstead, N.Y.
B.A., SUNY (Buffalo), 1974
Wang, Victoria Adrian Rhode Island, N.Y.
B.A., Cornell, 1974
Ward, Robert J. Douglaston, N.Y.
B.S., Fairfield, 1974
Warshavsky, Calvin Robert Scarsdale, N.Y.
B.A., Princeton, 1974
Weinstock, Ruth Sue Bayside, N.Y.
B.A., Smith, 1974
Weitzman, Stephen Mitchell New Bedford, Mass.
B.A., Bowdoin, 1974
White, John Vincent Oak Park, Ill.
B.A., Northwestern, 1974
Widman, Lawrence Edward Elkins Park, Pa.
B.S., Massachusetts Institute of Technology, 1973
Wilking, Andrew Pray New York, N.Y.
B.A., Harvard, 1972
Winkler, Barbara Anne Bayside, N.Y.
B.A., Queens, 1974
Wolinsky, David Gary Rochester, N.Y.
B.A., Columbia, 1974
Ziebur, Martha Alice Binghamton, N.Y.
B.A., Swarthmore, 1974

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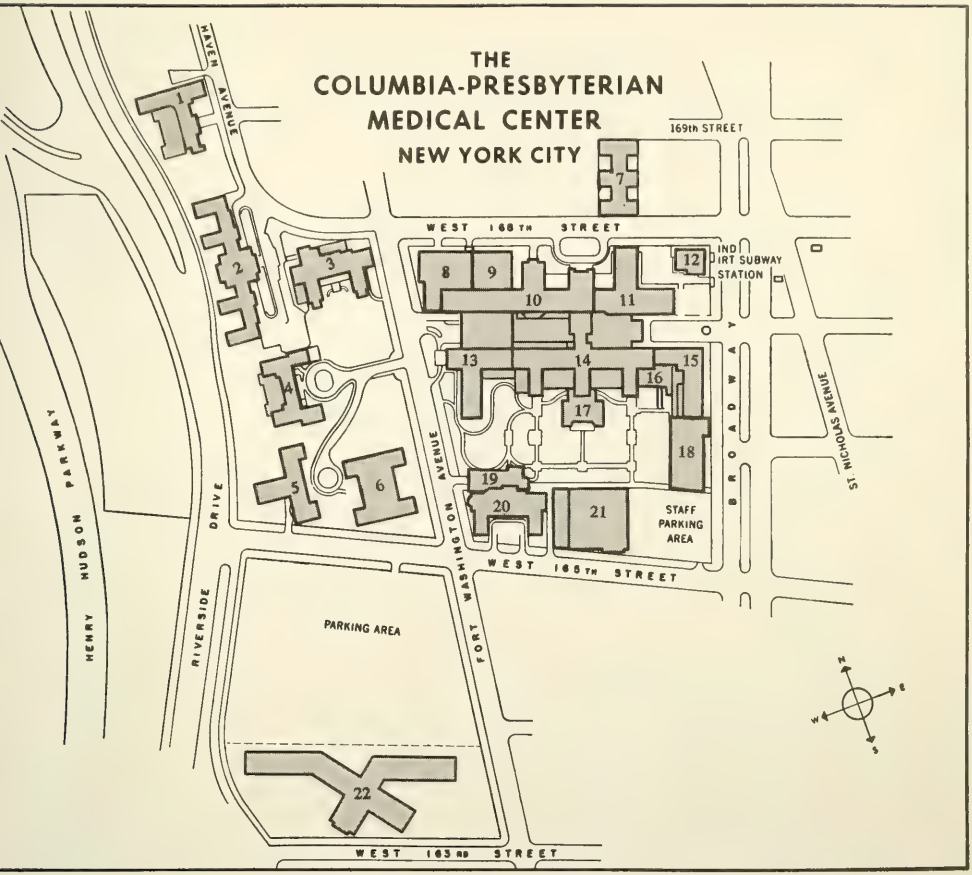

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Columbia University Bulletin • *Volume 9* • *Number 17*

Published monthly in February, March, April, May, June, October, November, and December; semi-monthly in January; weekly in July, August, and September, by Columbia University, New York, N.Y. 10027. Second-class postage paid at New York, N.Y.

COLUMBIA UNIVERSITY BULLETIN

College of Physicians & Surgeons

The Faculty of Medicine

OCTOBER 1975 ISSUE, WITH INFORMATION APPLYING TO 1975-1976

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Academic Calendar, 1975-1976

MAJOR RELIGIOUS HOLIDAYS

See "Attendance" under Admission, Registration, and Expenses for a statement of University policy on absence for the observance of religious holidays.

June	**30**	Monday, through July 2, Wednesday.* Registration, including payment of fees, for third- and fourth-year students.
July	**1**	**Tuesday. Academic year begins for third- and fourth-year students.**
	4	**Friday. Independence Day. Holiday for third- and fourth-year students.**
Aug	**1**	Friday.† Last day to apply or reapply for October degrees (see September 4).
	30	**Saturday, through September 2, Tuesday. Labor Day vacation for third-year students.**
Sept	**4**	Thursday. Last day to file *late* application for October degrees.
	4–5	Thursday–Friday.* Registration, including payment of fees, for first- and second-year students.
	8	**Monday. Academic year begins for first- and second-year students.**
Oct	**22**	**Wednesday. Award of October degrees.**
	31	Friday.† Last day to apply or reapply for January degrees (see December 5).
Nov	**4**	**Tuesday. Election Day. Holiday for first- and second-year students.**
	27–28	**Thursday–Friday. Thanksgiving holidays for first-, second-, and third-year students.**
Dec	**5**	Friday. Last day to file *late* application for January degrees.
	20	**Saturday, through January 4, 1976, Sunday. Vacation for first-, second-, and third-year students.**
Jan	**16**	Friday. First semester ends for first-year students.
Jan	**19**	Monday. Second semester begins for first-year students.
	21	**Wednesday. Award of January degrees.**

* Students allowed to register after the period specified must pay a late fee.
† Students who apply after this date must pay a late fee.

Feb.	**16**	Monday.* Last day to apply or reapply for May degrees (see April 5).
	16	**Monday. Washington's Birthday. Holiday for first- and second-year students.**
Mar	**1**	Monday. Elective curriculum begins for third-year students.
Apr	**5**	Monday. Last day to file *late* application for May degrees.
	10–25	**Saturday–Sunday. Vacation for first-year students.**
	13–25	**Tuesday–Sunday. Vacation for second-year students.**
	26	Monday. Major Clinical Year begins for second-year students.
May	**5**	Wednesday. Dean's Day for Medical Student Research.
	12	**Wednesday. Commencement and P&S Convocation.**
	31	**Monday. Memorial Day. Holiday for all students.**
June	**5–20**	Saturday–Sunday. Vacation for second-year students.
	11	Friday. Second semester ends for first-year students.
	21	Monday. Major Clinical Year resumes for second-year students.

► DATES OF NATIONAL BOARD EXAMS

Part I	September 3–4, 1975
Part II	September 23–24, 1975 April 13–14, 1976
Part I	June 15–16, 1976

* Students who apply after this date must pay a late fee.

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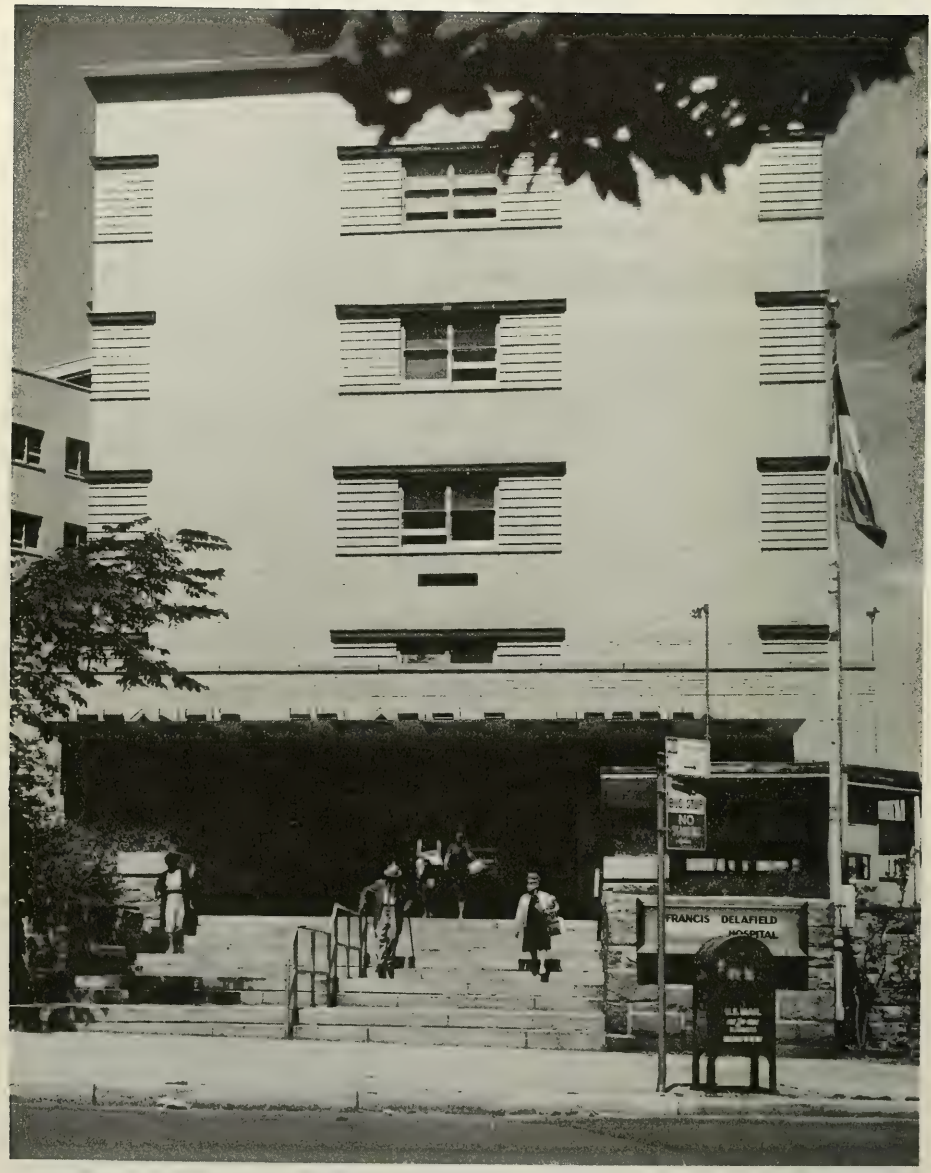

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Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an in-

tegral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Augustus Long Library–Health Sciences Center, a twenty-story structure now under construction diagonally opposite the William Black Medical Research Building, will include teaching, research, and library facilities.

HEALTH SCIENCES LIBRARY

The Health Sciences Library occupies parts of the three lower floors of the College building. It provides information, both current and historical, in books, journals, and nonprint media, for faculty members, research staff, and students. Services offered by the library include interlibrary loan, photocopying facilities, a multimedia facility, and a bibliographic service which has been expanded to include access to a variety of data bases, including MEDLINE at the National Library of Medicine, and several other medically related computer data bases from the State University of New York Biomedical Communications System.

The library contains approximately three hundred thirty-five thousand three hundred volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than three thousand periodicals are received regularly. A professional library staff under the direction of C. Lee Jones, M.L.S., Health Sciences Librarian, is available to aid students, faculty members, and research workers in the schools and hospitals of the Medical Center.

A new health sciences library is being constructed which will house the print collections and provide ready access to the full range of nonprint media. This new facility will be part of the Augustus Long Library–Health Sciences Center.

The libraries on the Morningside campus, which contain over four million volumes, are open to all students. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supple-

ment the special collections available in the Health Sciences Library. Books and journals may be borrowed for home use. The main collection is housed in Butler Library, while special and departmental collections are located in various other buildings on the campus.

The Health Sciences Library is open Monday through Friday, from 8:30 a.m. to 11 p.m.; Saturday, from 9 a.m. to 5 p.m.; and Sunday, from 12 noon to 10 p.m. during the academic year. All other libraries post their hours.

CANCER RESEARCH CENTER

The Cancer Research Center serves to coordinate, integrate, and facilitate cancer research at the Columbia-Presbyterian Medical Center and its affiliated institutions. The Cancer Research Center is organized to promote the efficient and cooperative use of all Cancer Research Center resources, to maximize the dissemination of information among Center personnel, and to facilitate the rapid translation of research findings into programs for improving clinical care of cancer patients. The Center is also charged with responsibility for research and cancer patient care by all health professionals.

The operational elements of the Cancer Research Center are the Scientific Sections. These represent coordinated and integrated interdisciplinary and interdepartmental programs of research, both laboratory and clinical, organized according to their cancer research goals. These sections include: Cancer Therapy, Causation, Clinical Immunology, Hormones and Neoplastic Cell Growth, and Patient Care Development.

CENTER FOR COMMUNITY HEALTH SYSTEMS

The Center for Community Health Systems is an interdisciplinary and interdepartmental project which enlists varied resources of the University, particularly those of the Faculty of Medicine and its affiliated hospitals, in a systematic attack on problems in the organization and delivery of health care, with a predominant, though not exclusive, focus on urban areas.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital, enabling the consolidation of all the laboratories of the Institute in one building. These laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INSTITUTE OF HUMAN NUTRITION

The Institute of Nutrition Sciences was established in 1958 in the School of Public Health and Administrative Medicine (renamed the School of Public Health

in 1972). The Institute has served as a graduate center to train individuals who would help meet the world-wide need to combat malnutrition. Between 1958 and 1972, 230 degrees were granted, 80 percent of them to foreign students representing forty-six countries. In addition, twenty-five postdoctoral fellows and approximately one hundred special students, mostly from abroad, received extensive training in clinical and public health nutrition.

In 1970 the name of the Institute was changed to the Institute of Human Nutrition, and in 1971 the administration was transferred from the School of Public Health to the Postgraduate Education Division of the Faculty of Medicine with the aim of developing research programs in human nutrition and expanding the teaching role of the Institute to encompass medical students and physicians.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. The Institute consists of the Center for Reproductive Biology, including the divisions of reproductive biochemistry, physiology, and reproductive morphology, and the Center for Population Sciences, which includes the divisions of social and administration sciences, family life services, clinical evaluation, and sexual behavior.

The office of the Director of the International Institute for the Study of Human Reproduction is on the main floor of the Bard-Haven Apartments, 78 Haven Avenue.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

BARD HAVEN TOWERS

The Bard Haven Towers consist of three thirty-one-story apartment towers for married students, faculty members, and staff of Columbia University and affiliated institutions. The Towers are located between 169th and 171st streets on the west side of Haven Avenue overlooking Riverside Drive and the Hudson River.

► AFFILIATED HOSPITALS

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for

Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,504 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their thirteenth birthday, and care for premature babies. The total capacity of the hospital is 165. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a total capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 318 adult private patients.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of nervous diseases, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary and Hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 122 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building and one floor in Harkness Pavilion. There are 187 beds, of which 124 are ward beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of the Presbyterian Hospital.

HARLEM HOSPITAL CENTER

Harlem Hospital Center, founded in 1887, is a general hospital of nearly eleven hundred beds serving Central Harlem and environs, responsible for the care of approximately four hundred thousand people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

THE HELEN HAYES HOSPITAL

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is a 150-bed independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. New patient facilities are under construction, the research building has been renovated, and an active biomedical engineering unit developed.

OVERLOOK HOSPITAL

Overlook Hospital in Summit, New Jersey, is a 540-bed, suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and the primary care aspects of medical practice through a program of broad-based clinical experience for graduate physicians.

ST. LUKE'S HOSPITAL

St. Luke's Hospital Center was established in 1850 and has been located on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center which contains 773 beds, including 53 pediatric beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than ninety thousand visits a year and the various clinics almost one hundred seventy thousand visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

THE ROOSEVELT HOSPITAL

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about two hundred sixty-three thousand outpatient and

emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

FRANCIS DELAFIELD HOSPITAL

The nearby Francis Delafield Hospital is a 250-bed limited general hospital owned and operated by the City of New York through the Health and Hospitals Corporation. The College of Physicians and Surgeons contracts with the Health and Hospitals Corporation to provide professional staff and services in this hospital. Opportunities for education and training of medical students, nurses, paramedical personnel, house staff, and fellows are provided on the wards, in the clinics, and in the laboratories. The Institute of Cancer Research is attached to this hospital.

NEW YORK STATE PSYCHIATRIC INSTITUTE

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

THE MARY IMOGENE BASSETT HOSPITAL

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 183 beds and a full-time staff of specialists. In 1972 the staff saw 92,000 patients on an outpatient basis. A close liaison between the community medical resources and the hospital staff creates a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. Since 1947 the hospital has had a formal affiliation with Columbia, and each year approximately forty students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Admission, Registration and Expenses

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions. All applicants receive consideration for admission without regard to race, creed, color, national origin, or sex.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores if this test has been taken. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of 147 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to consider alternatives and make decisions, and has developed a desire for a continuous program of self-education. In the selection of students, preference is given to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who have already given evidence that they are likely to become ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

ADMISSION TO ADVANCED STANDING

Only a very small number of vacancies, at most, occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere but, in the past, the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been unable to evaluate the credentials of such applicants. As a result, the Committee has been able to admit relatively few individuals either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

► REGISTRATION

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. At registration a student provides the information required and pays his tuition and fees. The Office of the Registrar, on the third floor of the College building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Those who do not now have a number should obtain one from their local Social Security office well in advance of registration.

► REGULATIONS

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his or her fees have been paid. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period unless he or she obtains the written consent of the appropriate dean or director.

CONDUCT

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

ATTENDANCE

Students are held accountable for absences incurred owing to late enrollment.

RELIGIOUS HOLIDAYS

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the

scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence due to religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Some of the major holidays occurring on weekdays during the current academic year are:

Monday, September 15	Yom Kippur
Thursday, Friday, April 15, 16	First days of Pesach
Friday, April 16	Good Friday
Wednesday, Thursday, April 21, 22	Concluding days of Pesach

► AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 3–412) no later than September 12 in the autumn term and January 28 in the spring term. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit by paying the fee after the fact. Courses previously taken for credit may not be audited.

► FEES

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Tuition, the student health service fee, and the health insurance premium are payable in advance and as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (see the Academic Calendar), they will not be reduced, and a late fee of $10 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

TUITION

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$3,750.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$150.00

HEALTH SERVICE AND HOSPITAL INSURANCE FEES

For all full-time students, per year (September 1–August 31)	
Health service fee	$105.00
Hospital insurance premium	75.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium of the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Student Accounting Division, 7th floor, Vanderbilt Clinic, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

APPLICATION FEES AND LATE FEES

For admission	$20.00
For renewal of application for a degree	1.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he wishes to withdraw from the University. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospitalization insurance fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

► APPLICATION OR RENEWAL OF APPLICATION FOR A DEGREE

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Registrar, 630 West 168th Street. In the 1975–1976 academic year, the last day to file for an October degree is August 1; for a January degree, October 31; and for a May degree, February 16. A late fee of $10 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 4 for October degrees, December 5 for January degrees, April 5 for May degrees). Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application by paying a renewal fee of $1. A $10 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above).

► REQUESTS FOR TRANSCRIPTS

Transcripts may be requested by writing to the Office of the Registrar, 630 West 168th Street, New York, N.Y. 10032. *Official* transcripts must be sent by the University directly to an official address such as another university, a hospital, a business firm, or a government agency. However, a student may request an unofficial transcript (stamped "Student Copy"). There is a charge of $2 for each transcript re-

quested except for those which are sent between offices of Columbia University. Checks accompanying transcript requests should be made payable to Columbia University.

► ESTIMATED EXPENSES

The approximate current costs for a single student attending the College during the *first academic year* are as follows:

Tuition	$3,750.00
Fees	180.00
Room in Bard Hall (average cost; see under "Housing," below)	1,000.00
Board at Bard Hall (under "Housing," below)	850.00
Books and supplies	385.00
Microscope (rental cost)	145.00
Equipment	45.00

In addition, each student should budget approximately $1,000 for clothing, laundry, dry cleaning, recreation, and sundries, and approximately $955 for meals on weekends and holidays, when the Bard Hall dining room is closed.

There are some variations in costs for other years of the curriculum, accounted for by differences in the length of the academic year and in the student's need for books and equipment, costs of transportation to the affiliated hospitals, and food and living expenses if the student no longer resides in Bard Hall. Each year a Financial Aid Committee, composed of faculty and students, prepares a statement of estimated expenses for single and married students for each year of the medical school curriculum. These statements are available annually to all students.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope. The faculty recommends an instrument of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt illuminator also acceptable); all in carrying case.

A microscope rental service is operated by the Medical Center bookstore.

Students are required to secure the usual instruments needed for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

► FINANCIAL AID

Financial aid programs are administered without regard to race, creed, color, national origin, or sex.

The College of Physicians and Surgeons financial aid programs, which are based primarily on demonstrated need, take the form of *scholarships, fellowships,* and *loans,* as described below. Such funds are intended to *supplement,* rather than substitute for, the student's own resources, including those of his parents. In addition, certain *prizes* are awarded regularly (*vide infra*).

Most recipients of financial aid are given both scholarships and loans. The amount of a scholarship award depends on the total scholarship monies available and the total number of students eligible for aid.

Scholarships, fellowships, and loans are usually awarded for one academic year at a time. Fellowships may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award.

New students who are in need of financial assistance should at their earliest opportunity complete the financial aid application sent with notices of admission to the College. No award notices should be expected before the fourth week in June. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 579–4100.

Spouses of medical students seeking employment at the Medical Center should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital.

SCHOLARSHIPS

Students are urged to determine the availability of scholarship assistance from the states in which they reside, and to make application for such funds when appropriate. As an example, New York State provides funds through the Scholar Incentive and Regents awards to its qualified permanent residents. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state.

Among nongovernmental sources of funding, there is the National Medical Fellowships, Inc., which awards fellowships to needy Black American, American Indian, Mexican-American, and mainland Puerto Rican men and women who have been accepted by or are already attending a medical school in the United States. An applicant must be an American citizen or have filed a Declaration of Intent to become one. Awards are given primarily to first- and second-year students, but there are occasional exceptions. Candidates for NMF awards, if already in medical school, should apply to the NMF at 3935 Elm Street, Downers Grove, Illinois 60515, before March 1 for second-year support. Other students should request an application form from the NMF at the time of submitting applications to medical schools. Upon acceptance by a medical school, the student should submit the completed NMF application.

There are also a number of University sources of scholarship funds. These include the following named scholarships, donated by alumni, foundations, corporations, and friends of the University:

Allen. Awarded annually to men who are unable to pay their own way for medical training. Gift of Mrs. Vivian B. Allen.

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually. From an anonymous donor.

Banbury (1955). Open to students enrolled in the medical school. From the Banbury Scholarship Fund.

Bernheim, Alice Ida and Abraham Penner Scholarship Fund (1972). The income for the payment of tuition for a medical student each year.

Bernheim, Isaac J. and Rena Henly. To be awarded annually. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. (1965). Founded by the will of Morell Birtwhistle in memory of his wife; to assist one or more worthy students.

Blumenthal, George, Jr. Several. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial (1964). From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund (1965). A merit scholarship awarded every four years to one student. "Established for the benefit of humanity and for the encouragement of this nation's outstanding and gifted individuals to plan careers in medicine."

Buchman, Dr. Moses R., Memorial (1957). Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial (1959). In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons. Reappointment: not more than two additional years.

Citibank Medical Scholarship (1974). Established by the First National City Bank. The recipient must have demonstrated need for support and be a New York State resident.

Clark, Alonzo. Awarded annually. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Awarded annually. Given by a member of the class.

Class of 1899. Awarded annually. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Awarded annually. Given by the class on the fifteenth anniversary of its graduation.

Class of 1913. Awarded for medical student scholarships.

Class of 1920. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1928. Given at their tenth reunion.

Class of 1932. Awarded annually. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship.

Class of 1934. Awarded for medical student scholarships.

Class of 1936. Awarded annually. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1937. Awarded for tuition of medical students.

Class of 1938. Awarded annually to assist a Physicians and Surgeons student.

Class of 1939. Awarded for medical student scholarships.

Class of 1940. Awarded for medical student scholarships.

Class of 1942. Awarded for medical student scholarships.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Awarded annually. Given by members of the class.

Dana, Charles A., Foundation, Inc. (1974). Established by the Foundation, the income to be used for medical student scholarships.

DeAngelis, Anthony M. (1958). Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Several; awarded annually. Open to students in the third- and fourth-year classes whose records of ability and scholarship give evidence of special fitness.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Durante, Lawrence John. Awarded for medical student scholarships. Given by members of his class, Physicians and Surgeons 1961, in his memory.

Eglee, Edward Percy (1972). Awarded annually for medical student scholarships. Bequest of Edward Percy Eglee, Class of 1913. Member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a Clinical Professor of Medicine and Visiting Physician, Tuberculosis Service, Bellevue Hospital.

Eichner, Joseph Herman and Hannah (1941). Awarded annually. Founded by the will of Benjamin Bernard Eichner, Class of 1919.

Foster, Joseph C. (1973). To be awarded annually for the benefit of deserving medical students. Given by Mrs. Esther J. Foster, in memory of her husband.

Frantz, Virginia Kneeland. Awarded annually. Bequest of Dr. Frantz. Established in 1967.

George and Charlie (1942). Awarded annually. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello.

Goetz, Norman. Awarded every three or four years to a student entering medical school who is considered the most deserving applicant on the basis of academic excellence as an undergraduate. Given by Mrs. Beatrice J. Goetz in honor of Dr. Frederick King, Class of 1929, in appreciation for his devoted attention to her husband, Norman Goetz.

Harsen, Jacob (1859). Five; awarded annually. Given by Dr. Jacob Harsen.

Hartley, Frank (1914). Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H. Several; awarded annually; to cover tuition.

Himmelstein, Aaron, Memorial (1960). Awarded annually. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Hirschl, Ira T., Scholarships (1972). From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

Hoyt Foundation. To be used for student research aid in one of the basic sciences for the encouragement of students seeking a career in teaching and research. Given by the Hoyt Foundation.

Huber, Francis. Awarded annually. Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Awarded annually. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Iklé, Charles F., Scholarship and Research Fund. Awarded annually to deserving medical students. Grant by the New York Community Trust.

Jacobi, Abraham. Four; awarded annually; two to graduates of Columbia University and two to graduates of City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

Jeal, Edward R. Awarded to deserving students studying under the Faculty of Medicine.

Johnson, Robert Wood, Foundation (1972). Can be awarded annually until 1976. Limited to women students, students from rural areas, and students from the Black, Indian, Mexican-American, and mainland Puerto Rican populations of the United States.

Lee, James T., Foundation, Inc. Awarded annually to medical students.

Lieb, Charles Christian. Awarded with preference given to an American, a worthy student, interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

Li Ming. Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

McAneny, Marjorie. Awarded annually. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

McCullough, Elizabeth Hall. Awarded to one or more worthy medical students. Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullough, an alumna of the College of Physicians and Surgeons.

Macy, Josiah, Jr., Foundation. For student research aid and special study projects in the field of human reproduction.

Manley, Herbert D. (1971). Awarded to assist worthy students in the College. Given as bequest by the late Dr. Herbert D. Manley.

Markoe, Francis Hartman. Awarded annually. Given by Madeline Shelton Markoe, in memory of her husband.

Maze, M. Montgomery (1971). From the estate of M. Montgomery Maze, Pearl River, Town of Orangetown, County of Rockland and State of New York. Part of this Fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School, Pearl River, New York.

Mead, Mabel C. Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

Milstein, Vivian and Seymour, Endowment for Scholarships. Awarded to medical students in good standing who are in need of financial assistance. Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

Moritz, Samuel J., Memorial. Awarded to medical students in the College. Gift of the executors of the estate of Samuel J. Moritz.

P&S Scholarship Aid and Loan Fund (1971). Established by the wives of the members of the Faculty of Medicine. Awarded to needy students of medicine.

Pfeiffer, Rudolph and Mary E. Awarded to assist one or more deserving and needy students of medicine. Given by Mrs. Mary E. Pfeiffer.

Presbyterian Hospital Alumni Scholarship (1957). Granted annually to a student, with preference given to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

Rhodebeck, Richard. Awarded to American-born medical students who are in need of financial assistance. Four full scholarships annually. Given in memory of her husband by Mrs. Richard Rhodebeck.

Rudin, Louis and Rachael (1970). Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

St. John-Princeton (1955). Open to graduates of Princeton University who have been admitted to the medical school.

Sagamore. Awarded to needy students enrolled in the College of Physicians and Surgeons to earn the degree of Doctor of Medicine.

Saphir, Joseph F., Memorial (1960). Awarded annually. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Saxe, the Mary S., Scholarship Fund (1973). Bequest of Mary S. Saxe. To be used each year toward the tuition of a deserving student in the College of Physicians and Surgeons, as selected annually by the Dean.

Severinghaus, Aura E. (1961). Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Requests of fourth-year students who, by electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, New York, are subject to increased living and transportation costs are given priority.

Severinghaus, Aura E. (1962). Awarded annually. Given by faculty members, alumni, and students.

Smith, Bernard E., Memorial (1967). Awarded annually for a medical student scholarship. Given by Mrs. Gertrude Smith, in memory of her husband.

Steinhardt Medical Scholarship (1971). Bequest of Samuel C. Steinhardt. For tuition and books ($100 for the latter expense category). Awarded as funds permit to medical students who have graduated from one of the colleges of the City University of New York and who have attended public schools exclusively (except for religious instruction). To be repaid fifteen years from the date of receipt: without interest for the first ten years, but with 5 percent annual interest thereafter on the unpaid balance.

Stevenson, the James A., Memorial Scholarship (1972). For undergraduate medical students. Established by Mrs. Ann Stevenson Hardesty, in memory of her brother, James Albert Stevenson, Class of 1943.

Stewart, Edgar Eginton, Jr., Memorial. Awarded annually. Given by Dr. E. E. Stewart, in memory of his son.

Stolfi, Julius E., Medical Educational and Research Fund Scholarship (1972). Awarded annually to an undergraduate medical student.

Stout, Arthur Purdy, Memorial. Awarded annually. Given by the Arthur Purdy Stout Society.

Strumdorf, Arnold. Awarded to one or more worthy students in their third or fourth year of medical school. Bequest of Miriam Strumdorf.

Vaughan, Harold S. Awarded to students of high character and scholastic ability. Bequest of Dr. Harold Vaughan, Class of 1904.

Vicale, Andrea, Memorial. Awarded to provide tuition and other financial assistance for deserving students in the College of Physicians and Surgeons. Established in memory of his father by Dr. Carmine T. Vicale.

Vollmer, Hermann. Awarded annually. Open to candidates in medicine. Established in his memory by his wife.

Vosseler, Theodore L. Awarded annually. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Awarded annually. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Whiting—Dr. Fordyce B. St. John—Scholarship Fund (1972). To be awarded, as authorized by the Dean, to deserving students who are in need of financial assistance. Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Wilson, Dr. James Lancelot. Awarded annually. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

Zohrab, Clara and Krikor. Awarded annually to students of the University who meet high academic standards and qualify for financial aid, with preference given to students of Armenian extraction.

FELLOWSHIPS

Area Institute. Varying in number; from $2,500 to $3,500 each. Open to graduates of, or second-year students in, the professional schools of the University; for work toward certificates in the regional institutes. An applicant is required to give the major portion of his time to the area program; he should discuss his program with the appropriate institute director before applying.

Bache, Jules S. Open to one or more graduate or undergraduate physicians who, in the judgment of the Professor of Obstetrics and Gynecology, are fitted to do special work in obstetrics and gynecology. Given by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache.

Barnes-Foster. Open to women graduate students for work in gynecology.

Beekman, Gerard. Awarded annually for advanced work in medicine. Given by the Beekman Family Association.

Du Bois, Abram. Awarded annually. Open to a graduate of the College; for specialization in diseases of the eye or for studies in surgical pathology. The holder devotes his time to clinical and laboratory study, at home or abroad. Given by the two sons and daughter of Dr. Abram Du Bois, Class of 1835.

Ellis, George W., Fellowships. Awarded annually to graduate students who are residents of the State of Vermont or who have been graduated from a Vermont college or university. A bequest of George W. Ellis.

Felsen, Morris. Awarded for investigative work in the field of infectious diarrhea. Bequest of Joseph Felsen.

Gay, Frederick Parker, Memorial. Awarded annually. For graduate work in bacteriology; awarded on the nomination of the chairman of the Department of Microbiology.

Gies, William J. Awarded annually. For graduate study in biochemistry; awarded on nomination of the chairman of the Department of Biochemistry.

Haviland, Theodore. Awarded to a physician for research projects or studies in the nature and cause of infectious diseases affecting infants and children.

Herrick, William Worthington. Given in honor of William Worthington Herrick, M.D. Awarded in medicine, preferably to those interested in the medical problems of pregnancy.

Hollingsworth, Leta Stetter, Fellowship (1944). Awarded annually to women who are graduates of the University of Nebraska, with preference given to those who were born in Nebraska or received their earlier education there. Holders are eligible for reappointment for one year. A gift of Harry L. Hollingsworth, in memory of his wife.

Holt, L. Emmett. Awarded annually. Open to a student of the graduating class of any medical school or to a graduate of not more than six years' standing; for the study of diseases of children, in this country or abroad. Reappointment: for not more than one additional year.

James, Walter Belknap, Research. Awarded annually. Open to a graduate in medicine; for advanced study in medicine either at the University or elsewhere.

Knapp Memorial. Awarded for research in ophthalmology on nomination by the Knapp Foundation Committee.

Koplik Children's Scholarship. Awarded every other year. Open to a physician under thirty years of age who has shown special aptitude for original work in the investigation of the diseases of children.

Lambert, Samuel W. and Elizabeth W., Traveling (1948). For specialization in surgery. Given in memory of Samuel W. and Elizabeth W. Lambert.

Meierhof, Edward. Awarded to a number of properly accredited graduates in

medicine to receive instruction in applied anatomy and surgical technique and other surgical training.

Proudfit, Maria McLean. Awarded every four years. Open to a son of native-born American parents; for advanced studies in internal medicine. The holder must remain unmarried for the duration of the fellowship. Given by Alexander Moncrief Proudfit, B.A., (18)'92.

Romaine, DeWitt C. For medical research in the College. Given by the estate of C. Everetta Romaine.

Ryle, Dorothy, Research (1950). For research in neurology. Given by Mrs. Thorneycroft Ryle.

Tilney, Frederick, Memorial Fund. For such research projects in neurology as may be recommended from time to time by the chairman of the Department of Neurology, the Dean of the Faculty of Medicine, and the President of the Board of Trustees of the Presbyterian Hospital. Given by the Frederick Tilney Memorial Fund, Inc.

Tucker, Ervin Alden. Awarded to a graduate of the College to do graduate work in obstetrics. Given by Mrs. Ervin Alden Tucker.

Webster, Edward C. Awarded for research in endocrinology or an allied field.

LOANS

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below. In all cases, the amount loaned is based on the applicant's demonstration of need for additional funds to meet educational and living expenses. Students who foresee the need to apply loan funds toward the costs of their medical education are urged to consult with the Financial Aid Officer of the College of Physicians and Surgeons well in advance of registration.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers for their loans who are citizens or permanent residents of the United States but not University employees or members of the applicant's immediate family (i.e., mother, father, siblings). Foreign students may borrow from federal or state loan funds upon being granted permanent resident status in the United States.

Federal Loans. Health Professions Loans are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student during a nine-month academic year is $3,500. Over a twelve-month year a student may borrow as much as $4,667. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 3 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* for up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during periods of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state which has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (See "Loan Repayment or Cancellation for Professional Practice," below.) (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, insurance companies, and eligible schools. The maximum loan each academic year under this program is $2,500, and the total outstanding loan balance at any one time may not exceed $10,000. Interest may not be in excess of an annual percentage rate of 7 percent. Lending institutions participating in this program can provide further information regarding interest rates. Repayment begins nine to twelve months after the student's studies have been completed or otherwise terminated, and is scheduled for completion within five to ten years. The minimum monthly payment is $30.

Deferment of repayment is permitted for up to three years during the student's service in the military, the Peace Corps, or Volunteers in Service to America (VISTA).

Comparable loans are insured by a number of states.

Other Sources of Loans. The National Education Loan Guarantee Program of the American Medical Association Education and Research Foundation (AMA–ERF) makes possible loans to all medical students, interns, and residents in good standing who are United States citizens, provided they are enrolled in full-time training at an AMA-approved American medical school or hospital and can demonstrate financial need. Medical students must have completed their first semester in order to qualify. The maximum amount that can be borrowed in a twelve-month period (September 1 to August 31) is $1500. Up to a total of $10,000 may be borrowed over a period of seven years. The minimum loan for any one interim note is $400.

Most AMA–ERF guaranteed loans provide for interest at one percent over the prime rate at the time the loan is made and one percent additional during the payout period. Interest charges must be paid in full each year by the student. Payment of principal is deferred during the training period. Prepayment of principal may be made at any time without penalty.

University loans are also intended to supplement students' resources and are made annually. Repayment of these loans is scheduled to begin nine months after graduation and to be completed within ten years (provided that a repayment rate of at least $15 a month is maintained). The interest charge for University loans is 3 percent a year of the outstanding loan balance.

The University has certain named loan funds from which medical students may borrow when monies are available. Included among these are the following funds:

Amazon, Peter. Bequest of Peter Amazon.

Blumenthal, George, Jr. (1916). Used for the assistance of needy students in the medical school.

Class of 1906. Gifts from various members of the Class of 1906.

Class of 1919 (1944). Gifts from various members of the Class of 1919. To be used for interest-free loans to deserving students.

Gardner, Carol Elissa. Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

Greene, David (1970). A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

Hawkins, George L., Jr. Gift of George L. Hawkins, Jr., Class of 1941.

Steinhardt, Samuel C. See Steinhardt Medical Scholarship, under *Scholarships,* above.

In addition to the foregoing, periodically there may be funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Loan Repayment or Cancellation for Professional Practice. The Comprehensive Health Manpower Training Act of 1971 provides that if a physician obtained a Health Professions Student Loan or *any other educational loan* for the costs of education at a school of medicine and enters into an agreement with the Secretary of Health, Education, and Welfare to practice for a period of at least two years in an area in a state designated by the Secretary (after consultation with the appropriate state health authority) to have a shortage of, and need for, persons trained in medicine, the Secretary will repay a portion of the educational loans which are outstanding on the date a physician begins practice under the agreement, as follows: (1) Upon completion of the first year of the practice as specified in the agreement, 30 percent of the principal and interest of each such loan which is outstanding on the date the physician begins such practice will be repaid. (2) Upon completion of the second year of such practice, another 30 percent of the principal and interest of each such loan will be repaid. (3) Upon completion of a third year of such practice, an additional 25 percent of the principal and interest of each such loan will be repaid. Should the physician enter into such an agreement with the Secretary and fail to fulfill the provisions of the agreement, he or she is liable to reimburse the Secretary for any payments which have been made by the government.

PRIZES

With the exception of the Stevens Triennial Prize, all awards are made annually.

Altman, Dr. Harry S., Prize (1973). Awarded to an outstanding student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarships in pediatrics.

Bartelstone, Herbert J., Award in Pharmacology. Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to a student who has done outstanding work in the field.

Cock, Thomas F., M.D., Prize. Awarded to a senior student for excellence in obstetrics and gynecology.

Gay, Frederick Parker, Memorial Award (1948). Awarded to the student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Loeb, Robert F., Award (1974). Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and Chairman of the Department of Medicine from 1947–1959.

Meierhof, Dr. Harold Lee, Prize. Awarded on recommendation of the Professor of Pathology to the student who has done the best work in the field. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P & S Class of 1924, Dr. Allen O. Whipple Memorial Prize. Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Ryan, Ann, Prize in Biochemistry (1973). To be awarded to deserving female graduate students.

Sciarra, Helen M., Prize. Awarded to a senior student in the College for outstanding work in neurology.

Stevelman, Dr. Harold, Award (1973). Given to a student who has shown particular interest in, and dedication to, community health. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

Urology Prizes. Awarded to undergraduate students who submit the best essays on urological subjects during the school year.

Watson, Dr. William Perry, Prize in Pediatrics (1921). Awarded on the nomination of the Professor of Pediatrics to that member of the graduating class of the College who has been in attendance in the regular course of instruction for at least two years and has shown the most notable work in the study of the diseases of infants and children.

Watson, Dr. William Rayner, Award. Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential for exemplifying the humanitarian spirit in the art and practice of medicine, as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

► HOUSING

Room rates at Bard Hall depend on the length of the academic year; thus, first-year students pay $1,000, on the average, for a forty-week contract, and third-year students, $1,200, on the average, for a fifty-two-week contract. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan. The present rate is $850 for the first academic year, excluding the winter and spring holiday periods. The current rate for second-year students is $650, excluding approximately the last three months. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates are provided to entering students by the Admissions Office. For further information, write to the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Towers on the Medical Center campus. For information, please write to the Office of University Housing, 400 West 119th Street, New York, N.Y. 10027.

► STUDENT AND ALUMNI ACTIVITIES

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club, founded some eighty years ago by James R. Mott, who later won the Nobel Peace Prize, has a rich tradition of service to students and others. In 1917 the Club raised money for the purchase of a steam launch. Two Club members delivered this vessel to Sir William Grenfell, the famed Labrador physician. The boat was used to bring medical services to Eskimo and Indian fishermen on isolated islands along the Labrador coast. In subsequent summers P&S seniors continued to participate in this project.

In the 1950s and 1960s the Club collected textbooks for foreign medical schools. The MERCY Project, initiated in 1969, brought medical aid to more than a thousand children flown from the Biafran-Nigerian war zone.

Every matriculated student of the College of Physicians and Surgeons is, *ipso facto,* a member of the P&S Club and is invited to participate in the activities of his choice. Under the guidance of the Club's Faculty Board of Advisers, students assume full responsibility for managing its affairs. The student cabinet, the Club's governing body, includes one elected member from each class and project chairmen who organize such activities as Orientation Week, Community Youth Work, plays, an arts festival, social get-togethers, movies, the Medical History Society, athletics, and visits to the homes of faculty members. In recent years the Club has also sponsored conferences on such subjects as medicine and religion and medicine and law.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was first organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

All graduates of the College of Physicians and Surgeons are *ipso facto* members of the Alumni Association of the College. The office of the Alumni Association is located at 630 West 168th Street, New York, N.Y. 10032.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses, with correlation clinics to help relate basic science material to medical problems. After the summer vacation, basic science courses are continued in the second year, with the addition of interdepartmental courses in abnormal human biology and an introduction to the evaluation of patients and their problems.

The major clinical year is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary education aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms involved and the various ways in which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final semesters, with the inclusion of some vacation periods, are devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

► RESEARCH OPPORTUNITIES

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year.

► GRADES AND PROMOTION

Students are evaluated in terms of comments regarding their performance and professional attitudes. Official records indicate whether they have passed with honors, passed, or failed. Students are not ranked within their class.

A student may be advanced to the next academic year of the medical course or be allowed to repeat a year only upon the recommendation of the faculty members under whom he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

► KEY TO COURSE NUMBERS

Medical Center courses: The suffixes F and S refer to the first and second years respectively.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

► SUMMARY OF CURRICULUM

FIRST-YEAR CLASS, 1975

SEPTEMBER 8, 1975, to JANUARY 16, 1976. First semester basic science courses and correlation clinics.

JANUARY 19, 1976, to JUNE 11, 1976. Second semester basic science courses and correlation clinics.

SECOND THROUGH FOURTH YEARS

SEPTEMBER, 1976, to APRIL, 1977. Introductory clinical and basic science courses.

APRIL, 1977, through APRIL, 1978. Clinical clerkships.

MAY, 1978, through APRIL, 1979. Electives.

► BASIC SCIENCE AND INTRODUCTORY CLINICAL COURSES

Abnormal Human Biology 101S.

Dr. Canfield and interdepartmental associates: Cardiopulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastrointestinal, Dr. Morris; Hematology,

Dr. Rifkind; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Weinstein; Renal Diseases, Dr. Taggart; Surgery, Drs. Gump and King.

Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar with supporting lectures and is closely integrated with the courses in pharmacology and with *Medicine 102S—Introduction to the patient.*

Anatomy 101F. Microscopic anatomy

The departmental staff.

Anatomy 102F. Human anatomy

The departmental staff.

Biochemistry 101F. Introductory biochemistry

The departmental staff.

Embryology 101F.

Anatomy departmental staff.

Genetics 101S.

Dr. Krooth and associates.

Human Growth, Development, and Nutrition 101S.

Drs. Lorin, Jagiello, and Brasel, and staff.

Medicine 101F. Correlation clinics

Drs. Frantz and Jaretzki.

Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102S. Introduction to the patient

Dr. Aranow and associates.

Includes physical diagnosis as well as patient approach.

Microbiology 101F. Cell biology

The departmental staff.

Microbiology 102S. Pathogenic organisms

The departmental staff.

Neural Sciences 101S.

Drs. Carpenter, Kandel, Kupfermann, Noback, Rowland, Schwartz, and Spencer.

Pathology 101F. General and special pathology

Dr. King and the departmental staff.

Pathology 102S. Neuropathology

Dr. Duffy.

Pharmacology 101S. General and special pharmacology

The departmental staff.

Physician-Patient Relationship 101F.
Drs. Hembree and Rosenberg.

Physiology 101F. Human physiology
The departmental staff.

Psychiatry 101FS. Human behavior
Dr. Altshuler and the departmental faculty.

Public Health 101S. Parasitic diseases
Dr. Katz and staff.
Human diseases caused by the protozoa, helminths, and arthropods.

Public Health 102S. Epidemiology
Dr. Susser and staff.

► MAJOR CLINICAL YEAR

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Bendixen and staff.

Dermatology 201. Dermatology and syphilology
Drs. Harber, Sanders, Young, and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Morris and staff.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at either Harlem, Roosevelt, or St. Luke's Hospital, to develop the basic skills of history taking, physical examination, and interpretation of laboratory data into an integrated approach to clinical medicine.

Neurology 201. Ward clinical clerkship in neurology
Dr. Rowland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Dr. Housepian and staff.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
The departmental staff. At Vanderbilt Clinic and the Eye Institute.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
Dr. Stinchfield and staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat

The departmental staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship

Dr. Behrman and staff.

Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry

Drs. Altshuler and W. Hunt, and the clinical faculty. At New York State Psychiatric Institute, Presbyterian Hospital, Harlem Hospital, and St. Luke's Hospital.

Public Health 201. Clerkship in public health and community medicine

The departmental staff.

Radiology 201. Diagnostic radiology (medical)

Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)

Dr. Seaman and staff.

Rehabilitation Medicine 201

Dr. Downey and staff.

Surgery 201. Clinical clerkship in surgery

Dr. Reemtsma and staff.

Surgery 202. Lectures and demonstrations in surgical pathology

Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology

Dr. Lattimer and staff.

► ELECTIVES (12 MONTHS)

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science-clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; involvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, infectious diseases, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth-year students, who take part in the activities in university or government health centers in Central and South America, Africa, or Asia.

► SUMMARY OF STUDIES (IN HOURS)

BASIC SCIENCE

	HOURS
Abnormal Human Biology 101S	244
Anatomy 101F	96
Anatomy 102F	146
Biochemistry 101F	115
Embryology 101F	12
Genetics 101S	16
Human Growth, Development, and Nutrition 101S	36
Medicine 101F	9
Medicine 102S	141
Microbiology 101F	102
Microbiology 102S	40
Neural Sciences 101S	89
Pathology 101F	161
Pathology 102S	21
Pharmacology 101S	106
Physician–Patient Relationship 101F	33
Physiology 101F	118
Psychiatry 101FS	102
Public Health 101S	36
Public Health 102S	15
TOTAL	1,638

MAJOR CLINICAL YEAR

	HOURS
Anesthesiology 201	64
Dermatology 201	17
Medicine 201	384
Neurology 201-202	192
Obstetrics and Gynecology 201	192
Ophthalmology 201	18
Orthopedic Surgery 201	64
Otolaryngology 201	18
Pediatrics 201	192
Psychiatry 201	130
Public Health 201	62
Radiology 201	11
Radiology 202	11
Rehabilitation Medicine 201	10
Surgery 201	156
Surgery 202	36
Urology 201	64
TOTAL	1,621

► SPECIAL PROGRAMS

M.D.–PH.D. PROGRAM

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and the Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain a Ph.D. degree in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program.

Applicants interested in the M.D.–Ph.D. program should write for further information and application forms to:

Dr. Lowell M. Greenbaum
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Pharmacology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

PROGRAMS IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin, *Programs in Physical Therapy and Occupational Therapy*.

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

Physicians participating in this training program who wish to be considered for acceptance as candidates for the degree of Doctor of Medical Science may request further information from the Office of the Dean of the Faculty of Medicine.

PROGRAM IN HUMAN NUTRITION

The Faculty of Medicine offers a program of study in nutrition leading to the degree of Master of Science in human nutrition. Prerequisite for admission is an M.D. degree from an approved medical school or a bachelor's degree from a college or university approved by Columbia University. Previous preparation in quantitative analysis, elementary organic chemistry, and elementary biochemistry is recommended for admission. Evidence of personal capability and fitness for this field is also a requirement. In addition to completing 32 credit points in prescribed courses or their equivalent, the candidate must devote three months full time to

research work in nutrition and field work in human nutrition and submit a thesis or essay. This program is designed for those desiring to work in the clinical field of nutrition in health and disease. Further details may be obtained by writing to the Institute of Human Nutrition at 511 West 166th Street, New York, N.Y. 10032, and requesting its bulletin.

PROGRAM IN CLINICAL GENETICS

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Committee on Clinical Genetic Services, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this Committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics, sponsored and directed by the Committee, offers clinical fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Committee on Clinical Genetic Services, Department of Human Genetics and Development, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

UNIVERSITY PROGRAM OF GENERAL AND CONTINUING EDUCATION IN THE HUMANITIES

For the third successive year, the Program of General and Continuing Education in the Humanities is offering a series of courses designed to bring various professional and humanistic disciplines to bear, together, upon matters of lasting human concern and distinct contemporary importance. The Program includes both experimental and time-tested forms of general education. It draws heavily on Columbia's half-century of experience in general education, but for the first time is designed to encourage general education during the students' graduate as well as undergraduate years. In 1975–1976 the Program will offer a group of new and advanced courses

which will complement such traditional courses as Contemporary Civilization, Humanities A and B, Oriental Civilizations, and Oriental Humanities.

Courses in the Program are addressed to both the nonspecialist and to the specialist who is willing to venture beyond conventional disciplinary boundaries. Students from all divisions of the University may enroll in General Education courses appropriate to their level of educational attainment.

In conformity with the spirit of the Program, students may be permitted to register for either graduate or undergraduate courses. Not all General Education courses, however, may satisfy requirements for the various degrees.

A complete listing of courses offered under the Program is published in a separate bulletin, and includes courses not otherwise announced in the other bulletins of the University.

During the 1975–1976 academic year, the Health Sciences Division of the University will conduct a General Education seminar—*Ethics and Values in Health Care.* The seminar will be open to students and faculty members from all divisions of the University and will include presentations of papers, panel discussions, and reports of study groups. For further information, call 579–3744.

► ENDOWED LECTURESHIPS AND VISITING PROFESSORSHIP

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures was inaugurated under the University's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible University lectures on some aspect of the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

► PRIZES AND AWARDS

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement Exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother, and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the alumnus of the College whose essay or original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, who submits the best essay or original research on any medical subject.

The Postgraduate Program

Opportunities for continuing medical education beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

GRADUATE TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes three major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn him a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

POSTGRADUATE COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and the affiliated hospitals. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Departments of Instruction

ANATOMY

PROFESSOR AND ACTING CHAIRMAN

Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*

PROFESSORS

Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*
Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*

ASSOCIATE PROFESSORS

Frederic J. Agate. *B.A., Columbia, 1932; Ph.D., 1949*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Joe G. Hollyfield (in Ophthalmology). *B.A., Hendrix, 1960; M.S., Louisiana State, 1963; Ph.D., Texas, 1966*

ADJUNCT ASSOCIATE PROFESSOR

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Kansas, 1956*

ASSISTANT PROFESSORS

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
William G. Dilley. *B.A., California (Berkeley), 1965; M.A., 1967; Ph.D., 1970*
Ray C. Henrikson. *B.Sc., Massachusetts, 1959; M.Sc., Brown, 1961; Ph.D., Boston, 1966*
Mary M. L. Lee. *B.A., Hunter, 1963; M.S., Michigan, 1964; Ph.D., Columbia, 1972*
Gerard P. Pereira. *B.Sc., Columbia, 1961; M.Sc., McGill, 1965; Ph.D., 1968*
John J. Rasweiler IV. *B.A., Colgate, 1965; Ph.D., Cornell, 1970*
Robert W. Rice (Orthopedic Surgery). *B.A., Cornell, 1965; M.S., New York Medical College, 1967; Ph.D., 1969*

ADJUNCT ASSISTANT PROFESSORS

Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*
Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*

SPECIAL LECTURERS

Edmund Applebaum
Joseph Reibeisen

ANESTHESIOLOGY

PROFESSOR AND CHAIRMAN

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

► AT PRESBYTERIAN HOSPITAL

PROFESSORS

Mieczyslaw Finster. *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (see Pharmacology). *M.B., National Central (Nanking), 1944*
Herbert Rackow. *B.S., Pennsylvania State, 1939; M.D., Howard, 1946*

PROFESSOR OF PEDIATRICS

L. Stanley James. *M.D., Otago (New Zealand), 1948*

PROFESSORS OF CLINICAL ANESTHESIOLOGY

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

ADJUNCT PROFESSOR OF ANESTHESIOLOGY

Sidney Spector (see Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

ASSOCIATE PROFESSORS

Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Allen I. Hyman (see Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Joannes H. Karis. *M.D., State University of Utrecht, 1952*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

ASSOCIATE PROFESSORS OF CLINICAL ANTHESIOLOGY

Simon Halevy. *M.D., Bucharest, 1953*
Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

ASSOCIATE CLINICAL PROFESSOR

Robert T. Donham. *B.A., Evansville, 1954; M.S., New York University, 1960; Ph.D., 1962; M.D., Columbia, 1966*

ASSISTANT PROFESSORS

Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
Daniel M. Pino. *M.D., New York University, 1942*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Jen-Tien Wung. *M.D., Taipei Medical College, 1966*

ASSISTANT PROFESSORS OF CLINICAL ANESTHESIOLOGY

Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Kathryn A. W. Cozine. *M.D., Johns Hopkins, 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
Arnold St. Jacques Lee. *B.A., Temple, 1947*
Marlise A. Ogilvie–Meier. *B.S., Lausanne, 1963; M.D., Zurich, 1969*
Estella K. Pua. *M.D., University of the East (Philippines), 1964*
Anthony E. Wicks. *M.B., B.S., Ceylon, 1961; M.D., 1966*
Joseph C-S. Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY

Hoshang J. Khambatta
Raymond B. Laravuso
Krishan Malik

RESEARCH ASSOCIATES

Salha S. Daniel
Genevieve M-P. De Soize
Mariagnes Verosky
Yvonne Vulliemoz

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Jasjit B. Atwal
Gerald L. Feinberg
Ernst Heilbrunn
Saidel Lane

► AT MARY IMOGENE BASSETT HOSPITAL

ASSISTANT CLINICAL PROFESSORS

Robert Forest Bedford. *B.A., Princeton, 1964; M.D., Cornell, 1968*
William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

► AT FRANCIS DELAFIELD HOSPITAL

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY

Veronica Bakamjian. *B.A., American (Beirut), 1932; M.D., 1937*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Nelly F. Abadir
Corazon Chan Maurasse

► AT HARLEM HOSPITAL

ASSOCIATE PROFESSOR OF CLINICAL ANESTHESIOLOGY

Herbert G. Cave. *M.D., Howard, 1947*

ASSISTANT PROFESSORS OF CLINICAL ANESTHESIOLOGY

Elmer S. Foster. *B.S., College of the City of New York, 1952; M.D., Brussels, 1959*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Stephanie Shich. *M.D., University of Josef Pilsudski, 1937*
Madasetti Swamy. *M.B., B.S., Osmania (India), 1954*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

ASSISTANT CLINICAL PROFESSORS

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Jean B. M. Gilot
Jacques Jean-Francois
J. Sinclair Trimiar

► AT ROOSEVELT HOSPITAL

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY

Marcella Monica Willock. *B.A., New Rochelle, 1958; M.D., Howard, 1963*

ASSISTANT CLINICAL PROFESSORS

Ronald A. Andree. *B.A., Miami (Ohio), 1955; M.D., Case Western Reserve, 1959*
Richard Keenan. *M.D., Creighton, 1957*

ASSOCIATE IN CLINICAL ANESTHESIOLOGY

Guglielmo Bettini

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Leon Guillermo
Han Chiang Lee

INSTRUCTORS (*continued*)

Ignacia U. Ngo
William M. Smith

► AT ST. LUKE'S HOSPITAL

ASSOCIATE PROFESSOR

Louis S. Blancato. *M.D., New York Medical College, 1945*

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY

Ennio Gallozzi. *M.D., Rome, 1953*
Joseph Iacovelli. *B.A., Buffalo, 1952; M.D., Bologna, 1958*

ASSISTANT CLINICAL PROFESSORS

Errol N. Harding. *B.A., M.D., C.M., McGill, 1949*
Aino Tuul. *M.D., Tartu (Estonia), 1942*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY

Hilda H. C. Liu

ASSOCIATES (*continued*)

Alfred T. C. Peng
Altagracia H. Polanco

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Ming C. Chiou
Zoan J. Korduba
Julio M. G. Rodriguez

BIOCHEMISTRY

PROFESSOR AND ACTING CHAIRMAN

Parithychery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

PROFESSORS

Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941; Ph.D., Duke, 1950*
Philip Feigelson. *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*
Seymour Lieberman (in Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*
Barbara W. Low (Biochemical Crystallography). *B.A., Oxford, 1942; M.A., 1946; D.Phil., 1948*
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Rodolfo L. Reyes. *M.D., Santo Tomas (Philippines), 1952*

ASSOCIATES IN CLINICAL REHABILITATION MEDICINE
Arun K. Bhattacharytta
Sally Wisely

INSTRUCTOR IN CLINICAL REHABILITATION MEDICINE
Alfred Hess

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ASSISTANT CLINICAL PROFESSOR

John J. Untereker. *B.S., Minnesota, 1940; M.D., Louisville, 1953*

► AT ST. LUKE'S HOSPITAL

ASSOCIATE CLINICAL PROFESSOR

Shyh-Jong Yue. *M.D., National College of Medicine (Shanghai), 1938*

ASSISTANT CLINICAL PROFESSOR

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INSTRUCTOR IN CLINICAL REHABILITATION MEDICINE
Ravi Raj Malpe

SURGERY

VALENTINE MOTT PROFESSOR AND JOHNSON & JOHNSON DISTINGUISHED PROFESSOR AND CHAIRMAN

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

► AT PRESBYTERIAN HOSPITAL

PROFESSORS

Jose M. Ferrer. *B.A., Princeton, 1934; M.D., Columbia, 1938*
David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*

Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
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Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
Thomas V. Santulli. *B.S., Columbia, 1935; M.D., Georgetown, 1939*

PROFESSOR OF MICROBIOLOGY

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PROFESSORS OF SURGICAL PATHOLOGY

Nathan Lane. *B.A., Columbia, 1943; M.D., 1945*
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PROFESSORS OF CLINICAL SURGERY

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ASSOCIATE PROFESSORS

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ASSOCIATE PROFESSOR OF PHYSIOLOGY

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ASSISTANT PROFESSORS OF CLINICAL SURGERY

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INSTRUCTORS (*continued*)

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J. William Littler. *M.D., Duke, 1942*
Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
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Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
William V. Healey, Jr. *B.A., Princeton, 1952; M.D., Columbia, 1956*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
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CLINICAL PROFESSOR

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Robert T. Fraser. *B.A., Dartmouth, 1931; M.D., Columbia, 1934*
George E. Green. *B.S., Yale, 1952; M.D., 1956*
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Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*

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Charles R. Blair
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Hiroshi Washio

UROLOGY

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PROFESSOR OF CLINICAL UROLOGY

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ASSOCIATE PROFESSOR OF CLINICAL UROLOGY

Aurelio Uson. *M.D., Barcelona (Spain), 1950*

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Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
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ASSISTANT PROFESSOR OF CLINICAL PATHOLOGY

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John D. Birkhoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*
Arthur M. Smith. *B.A., Cornell, 1959; M.D., Maryland, 1963*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*

ASSISTANT CLINICAL PROFESSORS

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
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Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*

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RESEARCH ASSOCIATE

Stanford Pulrang

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Clement A. Furey, Jr.
Robert Granato
Erol O. Gursel
Philip B. Jensen
Constant Pierre-Louis
Leonard J. Rudin
Robert R. White
Arthur T. Willetts

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Stanley Bloom
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Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

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ASSISTANT CLINICAL PROFESSOR

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ASSOCIATE CLINICAL PROFESSOR

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ASSISTANT CLINICAL PROFESSORS

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
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James W. Vastola

► AT ST. LUKE'S HOSPITAL

ASSOCIATE CLINICAL PROFESSOR

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ASSISTANT PROFESSOR OF CLINICAL UROLOGY

Manuel Fernandes. *M.D., Coimbra (Portugal), 1956*

ASSISTANT CLINICAL PROFESSOR

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

INSTRUCTORS IN CLINICAL UROLOGY

Alfred F. Fretz
Waleed G. Maloof
Constantine Photos

INSTRUCTORS (*continued*)

Joseph D. Putignano
Rudolph D. Talarico
Pellegrino J. Tozzo

ASSISTANT IN CLINICAL UROLOGY

Arumbi P. Subramaniam

Internship-Residency Placements: Class of 1975

Ambinder, Roy M.	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Andreson, James L.	*New England Deaconess Hospital, Boston, Mass.*	*Medicine*
Antoine, Clarel	*Presbyterian Hospital, New York, N.Y.*	*Obstetrics-Gynecology*
Aron, David C.	*San Diego County University, San Diego, Calif.*	*Medicine*
Bell, Kevin E.	*University of Wisconsin Hospitals, Madison, Wisc.*	*Medicine*
Berger, Paul R.	*University of New Mexico Affiliated, Albuquerque, N.M.*	*Medicine*
Berliant, Bonnie S.	*New York University Medical Center, New York, N.Y.*	*Surgery*
Bodnar, Paul Z.	*Johns Hopkins Hospital, Baltimore, Md.*	*Pediatrics*
Bonagura, Vincent R.	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
Burtenshaw, Bruce F.	*San Diego County University, San Diego, Calif.*	*Medicine*
Bushong, Charles R.	*Medical College of Wisconsin Affiliated, Milwaukee, Wisc.*	*Pediatrics*
Bussel, James B.	*Cincinnati General Hospital, Cincinnati, Ohio*	*Pediatrics*
Carden, George A.	*Presbyterian Hospital, New York, N.Y.*	*Medicine*
Casden, Richard S.	*University of Virginia Hospital, Charlottesville, Va.*	*Flexible*
Cassebaum, Mary E.	*Roosevelt Hospital, New York, N.Y.*	*Pediatrics*
Chang, Gloria J.	*Northwestern University Medical Center, Chicago, Ill.*	*Medicine*
Chou, James Y.	*University of Virginia Hospital, Charlottesville, Va.*	*Pediatrics*
Cohen, Frances B.	*Psychiatric Institute, New York, N.Y.*	*Psychiatry*
Copeland, Brian R.	*University of Minnesota Hospitals, Minneapolis, Minn.*	*Surgery*
Corey, Timothy J.	*Sepulveda Veterans Administration Hospital, Sepulveda, Calif.*	*Medicine*
D'Alessandro, Suzanne S.	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
De Cresce, Robert P.	*Presbyterian Hospital, New York, N.Y.*	*Pathology*
Delphin, Ellise	*Presbyterian Hospital, New York, N.Y.*	*Pediatrics*
De Petrillo, Michael A.	*Roosevelt Hospital, New York, N.Y.*	*Surgery*
Deringer, Paul M.	*St. Luke's Hospital, New York, N.Y.*	*Medicine*
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Di Sant'Agnese, Paul A.	*Presbyterian Hospital, New York, N.Y.*	*Pathology*
Dorfman, John I.	*Yale–New Haven Medical Center, New Haven, Conn.*	*Psychiatry*
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Ehrlich, Jerome P.	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
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Erginoz, Hasan S.	*Overlook Hospital, Summit, N.J.*	*Flexible*
Fein, Henry G.	*New York University–Bellevue Hospital, New York, N.Y.*	*Medicine*
Feit, Alan S.	*Roosevelt Hospital, New York, N.Y.*	*Medicine*
Fink, Daniel J.	*Montefiore Hospital Center, Bronx, N.Y.*	*Medicine*
Fischer, Stuart J.	*Grady Memorial, Atlanta, Ga.*	*Surgery*
Fleischman, Jay A.	*Johns Hopkins Hospital, Baltimore, Md.*	*Ophthalmology*
Fleiss, David J.	*St. Luke's Hospital, New York, N.Y.*	*Surgery*
Forbes, Ronald O.	*Wilford Hall, USAF, San Antonio, Tex.*	*Medicine*
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Rosenbaum, Robert L. *Montefiore Hospital Center, Bronx, N.Y.* *Medicine*
Rosenstein, Roger G. *Roosevelt Hospital, New York, N.Y.* *Surgery*
Rothendler, James A. *Roosevelt Hospital, New York, N.Y.* *Medicine*

Roye, David P. *Roosevelt Hospital, New York, N.Y.* *Surgery*
Rubin, David A. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Rusch, Valerie W. *University of Washington Affiliated, Seattle, Wash.* *Surgery*
Salgo, Peter L. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Sang, Delia N. *Peter Bent Brigham Hospital, Boston, Mass.* *Medicine*
Sarewitz, Stephen J. *Hartford Hospital, Hartford, Conn.* *Pathology*
Savatsky, Gary J. *Presbyterian St. Luke's Hospital, Chicago, Ill.* *Surgery*
Schned, Alan R. *University of Chicago Clinics, Chicago, Ill.* *Medicine*
Schned, Eric S. *New York Hospital, New York, N.Y.* *Medicine*
Sheiman, Ellen B. *Yale–New Haven Medical Center, New Haven, Conn.* *Pediatrics*
Solomon, William B. *Montefiore Hospital Center, Bronx, N.Y.* *Medicine*
Sperber, Jacob E. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Spivack, Carl R. *New York University–Bellevue Hospital, New York, N.Y.* *Medicine*
Stadelnikas, Joseph *Wilford Hall, USAF, San Antonio, Tex.* *Anesthesiology*
Strizak, Alan M. *Lenox Hill Hospital, New York, N.Y.* *Surgery*
Taylor, Stephen C. *New York University Medical Center, New York, N.Y.* *Pediatrics*
Topilow, Harvey W. *Montefiore Hospital Center, Bronx, N.Y.* *Medicine*
Tsapatsaris, Nicholas P. *New England Deaconess Hospital, Boston, Mass.* *Medicine*
Valdes, Michael E. *New England Medical Center Hospital, Boston, Mass.* *Surgery*
Waldron, David E. *Los Angeles County–USC Medical Center, Los Angeles, Calif.* *Medicine*
Wasserman, Sheldon M. *Harlem Hospital, New York, N.Y.* *Medicine*
Wiesen, Mark *Brookdale Hospital Center, Brooklyn, N.Y.* *Medicine*
Williams, Charles T. *Presbyterian Hospital, New York, N.Y.* *Surgery*
Williams, Pamela H. *St. Vincent's Hospital, New York, N.Y.* *Flexible*
Wolff, James A. *Montreal Children's Hospital, Montreal, Canada* *Pediatrics*
Young, Margaret R. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Zeitler, Kenneth D. *New England Deaconess Hospital, Boston, Mass.* *Medicine*

Student Roster: Class of 1976

Almas, James Patrick — Havre, Mont.
B.A., Stanford, 1972

Azzi, Raymond Lee — Northbrook, Ill.
B.S., Massachusetts Institute of Technology, 1972

Barbera, Lisa Gwendolyn — Pelham, N.Y.
B.S., Vassar, 1972

Baredes, Soly — Brooklyn, N.Y.
B.A., Columbia, 1972

Barnes, Henrietta Nichols — Belmont, Mass.
B.A., Radcliffe, 1972

Barnett, Arthur Steven — Wheaton, Ill.
B.A., Oberlin, 1972

Binkert, Barbara Lucile — Yonkers, N.Y.
B.A., Ohio Wesleyan, 1963

Blatt, Charles Myron — Auburn, Me.
B.A., Harvard, 1972

Bowe, John Andrew — Ridgewood, N.J.
B.S., Pennsylvania, 1972

Breaux, Barry Ellison — Guthrie, Okla.
B.A., Kansas, 1971

Bronzo, Richard Lawrence — New Hyde Park, N.Y.
B.A., Hofstra, 1972

Brown, Larry Kenneth — College Park, Md.
B.S., Maryland, 1972

Burke, Allan Martin — Yonkers, N.Y.
B.A., Haverford, 1971

Carr, Daniel Barry — New York, N.Y.
B.A., Columbia, 1968

Casals-Ariet, Christina — New York, N.Y.
B.A., Fordham, 1971

Castellano, Thomas John — Armonk, N.Y.
B.A., Harvard, 1972

Cerny, Kenneth Rudolph — Timonium, Md.
B.A., Cornell, 1972

Chaiken, Barry Glenn — Short Hills, N.J.
B.A., Yale, 1972

Chan, Florence Yu — Hong Kong
B.S., Minnesota, 1972

Charity, Cynthia McClennon — New York, N.Y.
B.A., Vanderbilt, 1969

Chernock, David Mark — Clifton, Va.
B.A., Rutgers, 1972

Chin, Jean Marguerite — Kingston, Jamaica
B.A., Hollins, 1972

Chyun, Yong-Sung Washington, D.C.
B.A., Case Western Reserve, 1972
Clark, Mary Helen Woodcliffe Lake, N.J.
B.A., Middlebury, 1971
Clark, Michelle Olivette Brooklyn, N.Y.
B.A., Hunter, 1972
Cohen, Ronald Scott Lawrence, N.Y.
B.A., Columbia, 1972
Cohn, Kenneth Holland Buffalo, N.Y.
B.A., Rochester, 1972
Daniels, Robert Leo Philadelphia, Pa.
B.A., Princeton, 1972
Davis, Jeffrey Miles Cherry Hill, N.J.
B.A., Princeton, 1972
Diller, Lawrence Howard Forest Hills, N.Y.
B.A., Clark, 1972
Drimmer, Eric Jonathan Harrison, N.Y.
B.A., Harvard, 1972
Dunford, James Vincent, Jr. Garden City, N.Y.
B.A., Syracuse, 1972
Eng, Catherine Suffern, N.Y.
B.A., Wellesley, 1972
Epstein, Nancy Ellen Old Westbury, N.Y.
B.A., Barnard, 1972
Fazio, Joseph Michael Trumbull, Conn.
B.A., College of the Holy Cross, 1971
Ferris, Warren Orrin San Francisco, Calif.
B.A., Harvard, 1966
M.B.A., Stanford, 1971
Flowers, Cornelius Collins, Mass.
B.S., Southern Mississippi, 1972
Forster, Susan Hall Philadelphia, Pa.
B.A., Radcliffe, 1972
Fox, Ira Jacob Omaha, Neb.
B.A., Harvard, 1972
Frasz, David Paul McHenry, Ill.
B.A., Princeton, 1968
Freeman, Linda Nancy Boston, Mass.
B.A., Pennsylvania, 1972
Friedman, Emanuel Livingston, N.J.
B.S., Newark College of Engineering, 1972
Fung, Yee Fai Hong Kong
B.S.E., Princeton, 1972
Galst, Jay Martin Milwaukee, Wis.
B.S., Wisconsin, 1972
Geller, Edmund Alan Brooklyn, N.Y.
B.A., New York University, 1972
Gilder, David Austin Scarsdale, N.Y.
B.A., Harvard, 1972
Gilhooly, Patricia Eileen West Germany
B.A., Manhattanville, 1972
Ginsberg, Brent William Shawnee Mission, Kansas
B.A., Princeton, 1972
Glaser, Bert Martin Hewitt, N.J.
B.A., New York University, 1971
Glinick, Stephen Ernest Islip, N.Y.
B.A., Bowdoin, 1971
Goldmann, Andrew Milton Buffalo, N.Y.
B.A., Cornell, 1972
Gonzalez, Frederick Andrew Condado, P.R.
B.A., Boston, 1972
Graham, Toney Lake City, S.C.
B.S., Claflin, 1972
Greenberg, Rosalie Brooklyn, N.Y.
B.A., New York University, 1972
Gregersen, Peter Kim Englewood, N.J.
B.S., Johns Hopkins, 1972
Groopman, Jerome Elliot Little Neck, N.Y.
B.A., Columbia, 1972
Gross, Gary Edward Sausalito, Calif.
B.A., Swarthmore, 1970
Gwirtsman, Harry Edward Springfield, N.J.
B.A., Yale, 1972
Hammill, Hunter Adrian Haworth, N.J.
B.S., Boston College, 1971
Harbison, Madeleine DiuVerre Altus, Okla.
B.A., Wellesley, 1971
Hoppock, John Scarborough, Jr. Wilmette, Ill.
B.A., Princeton, 1968
Hurwitz, Shepard Raphael New Rochelle, N.Y.
B.A., Columbia, 1972
Ilson, Joyce Bronx, N.Y.
B.S., City College, 1972
Israel, Andrew Glenn Beverly Hills, Calif.
B.A., Stanford, 1972
Jacob, Matteethra C. Cambridge, England
B.S.E.E., Madras (India), 1970
M.S., Imperial College (London), 1971
Jaffe, Judith Liza Rego Park, N.Y.
B.A., Barnard, 1972
Jinadu, Babatunde A. Lagos, Nigeria
B.S., Central State (Ohio), 1972
Johnston, Charles Eugene II Los Angeles, Calif.
B.A., Yale, 1971
Kalmanowitz, Stuart Mark Deal, N.J.
B.A., Princeton, 1972
Karp, George Isaac Fair Lawn, N.J.
B.A., Columbia, 1972
Kaunitz, Jonathan Davidson Westport, Conn.
B.A., Columbia, 1972
Kinaszczuk, Tom Milltown, N.J.
B.A., Princeton, 1972
Kleaveland, Joseph Patrick Muskegon, Mich.
B.S., Michigan, 1972
Koster, Beth Ellen Port Chester, N.Y.
B.A., Smith, 1973

Kremberg, Marvin Roy Rockaway Park, N.Y.
B.A., Brooklyn, 1972
Kuchera, James Joseph Paramus, N.J.
B.S., Scranton, 1972
Kung, Esther Ho New York, N.Y.
B.A., Hunter, 1972
Lawrence, Pamela New York, N.Y.
B.A., Stanford, 1968
Leder, Mary Ellen Brooklyn, N.Y.
B.A., Rochester, 1972
Lefkowitch, Jay Harris New York, N.Y.
B.A., Clark, 1972
Leiter, Bruce Edmund Portland, Me.
B.S., Dartmouth, 1972
Lopyan, Stanley Arnold Flushing, N.Y.
Queens College
Lowe, Barbara Rose New York, N.Y.
B.S., Tufts, 1972
Luber, Murray Philip Bala Cynwyd, Pa.
B.A., Pennsylvania, 1972
McDonald, Marguerite Bridget New York, N.Y.
B.A., Manhattanville, 1972
McGuire, Stephen Albert Idaho Falls, Idaho
B.S., Idaho, 1970
M.S., Michigan State, 1972
McNally, James William Hamilton, Ohio
B.S., Massachusetts Institute of Technology, 1972
Mandelblatt, Jeanne Susan Flushing, N.Y.
B.A., Southern California, 1972
Marcal, Jose Manuel Hong Kong
B.A., Hamilton, 1972
Marshall, Harry Jay III Madison, Wis.
B.S., Massachusetts Institute of Technology, 1969
Mendoza, Francis Xavier Middletown, Conn.
B.S., Polytechnic Institute of Brooklyn, 1968
M.S., New York University, 1970
Merrell, Woodson Charles Chatham, N.J.
B.A., Amherst, 1971
Meyers, Robert Allen Houston, Texas
B.A., Dartmouth, 1972
Mitchell, William Anderson, Jr. Huntington, N.Y.
B.A., Pennsylvania State, 1972
Mixter, Roger Milwaukee, Wis.
B.A., Amherst, 1971
Mount, Philip Maxwell Bronxville, N.Y
B.A., Oberlin, 1963
M.A., Wake Forest, 1968
Ph.D., Tulane, 1972
Neugut, Alfred I. Brooklyn, N.Y.
B.A., Columbia, 1972
Nieves, Walter Leo Bronx, N.Y.
B.S., City College, 1972
Nolan, Brian Thomas Chicago, Ill.
B.S., Yale, 1972
Ogilvie, Orin Howard Salt Lake City, Utah
B.S., Utah, 1972
Osborn, Emilie Heffron Sisson Dallas, Pa.
B.A., Radcliffe, 1969
Ostrer, Harry Belmont, Mass.
B.S., Massachusetts Institute of Technology, 1972
Packer, Andrew J. Eastchester, N.Y.
B.A., Princeton, 1972
Padron, Sebastian Teobaldo San Juan, P.R.
B.A., Indiana, 1971
Parris, Oneall Eucline Barbados, W.I.
B.S., Yale, 1972
Peters, William Paul Kenmore, N.Y.
B.S., B.S.B.A., Pennsylvania State, 1972
Phillips, Malcolm Charles Valley Stream, N.Y.
B.A., Amherst, 1972
Ratner, Clifford Marc Harrison, N.Y.
B.A., Pennsylvania, 1967
Romagnoli, Mario Frank Bronx, N.Y.
B.S., Fordham, 1972
Rosenberg, Robert Alan Bronx, N.Y.
B.A., Columbia, 1972
Rosenthal, Stephen Martin W. Hartford, Conn.
B.A., Yale, 1972
Rosenwasser, Melvin Paul Walden, N.Y.
B.A., Johns Hopkins, 1972
Rosner, Saran Saul New Rochelle, N.Y.
B.A., Dartmouth, 1972
Rubin, Harvey Brooklyn, N.Y.
B.S., State University of New York (Stony Brook), 1969
Ruderman, Marvin Ira Great Neck, N.Y.
B.A., Pennsylvania, 1972
Ruestow, Paul Charles Old Westbury, N.Y.
B.A., Princeton, 1972
Salmon, Jane Eva Fort Lee, N.J.
B.A., New York University, 1972
Sanchez, Guillermo Rafael So. Orange, N.J.
B.S., Seton Hall, 1966
Ph.D., Columbia, 1970
Schechter, Clyde Barry Cambridge, Mass.
B.A., Columbia, 1967
Schiffman, Robert L. Staten Island, N.Y.
B.A., Harvard, 1972
Schneider, Harry David New York, N.Y.
B.A., City College, 1966
M.A., Queens, 1971
Ph.D., City College, 1972
Schneider, Louisa Bea Laurelton, N.Y.
B.S., Queens, 1971
Schnur, Michael Jeffrey Queens, N.Y.
B.A., New York University, 1972

Schoen, Robert Taylor Bronxville, N.Y.
B.A., Harvard, 1972
Schultz, Robert Walter Hicksville, N.Y.
B.S., Notre Dame, 1972
Shoji, Elaine Carole Gardena, Calif.
B.S., California (Irvine), 1972
Silverman, David Alan New York, N.Y.
B.A., Columbia, 1972
Steinberger, Alfred Abe New York, N.Y.
B.S., City College, 1972
Sternschein, Michael Jon New York, N.Y.
B.A., Oberlin, 1970
Stuchin, Steven Andrew New Rochelle, N.Y.
B.A., Yale, 1972
Talon, Neil Stuart Southfield, Mich.
B.A., Michigan, 1972
Taylor, Howard Passaic, N.J.
B.S., Hobart, 1972
Turner, Robert Pearson Longmeadow, Mass.
B.A., Princeton, 1972
Ursell, Philip Christman Chevy Chase, Md.
B.A., Haverford, 1972
Van der Heide, Douglas John Berkeley, Calif.
B.A., California (Berkeley), 1972
Vernon, Mary Emma Louise Campobello, S.C.
B.S., South Carolina State, 1972
Veteran, Frank Anthony Tarrytown, N.Y.
B.A., Harvard, 1972
Welch, Elizabeth Ann Rye, N.Y.
B.A., New York University, 1972
Wilets, Greg Allen Chevy Chase, Md.
B.A., Wisconsin, 1972
Wilkinson, Dorothy Veronica Bronx, N.Y.
B.A., New York University, 1972
Wong, Kamehameha Kai-Min, Jr. Timonium, Md.
B.A., Johns Hopkins, 1972
Wood, John Chase Yardley, Pa.
B.A., Columbia, 1972
Woodriffe, Phillipa Gloria Laurelton, N.Y.
B.S., Molloy, 1972
Yaremchuk, Michael John Detroit, Mich.
B.A., Yale, 1972
Yergan, John Williston Park, N.Y.
B.A., Columbia, 1972
Zoltick, Jerel Mark Trenton, N.J.
B.A., Princeton, 1972

Student Roster: Class of 1977

Aaronson, Michael Jay Miami, Fla.
B.A., Cornell, 1973
Alexander, Frederick, Jr. Gladwyne, Pa.
B.A., Dartmouth, 1973
Arkow, Stan David Ozone Park, N.Y.
B.S., SUNY (Stony Brook), 1973
Ascher, Elizabeth Kasen Lexington, Mass.
B.A., Yale, 1973
Auchincloss, Elizabeth Lowell Ridgewood, N.J.
B.A., Yale, 1973
Baker, Robert William Scarsdale, N.Y.
B.A., Princeton, 1973
Ballantyne, Garth Hadden Port Washington, N.Y.
B.A., Harvard, 1973
Barsa, John Joseph Orangeburg, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Bassett, Susan Bronxville, N.Y.
B.S., Mount Holyoke, 1973
Bauer, Bertha Ann Brooklyn, N.Y.
B.A., Smith, 1973
Benson, Mitchell Clark Hewlett, N.Y.
B.S., Union (New York), 1973
Bern, Lauren Berkeley, Calif.
B.A., California (Berkeley), 1973
Bhark, Philip Emerson, N.J.
Columbia
Bock, John Edward Swann Harbor, Md.
B.A., Princeton, 1973
Bodkin, Cordy Elaine Palo Alto, Calif.
B.A., Michigan, 1967
Bressman, Susan Englewood, N.J.
B.A., Barnard, 1973
Brown, Richard Paul Alexandria, Va.
B.A., Virginia, 1973
Buchholz, Gary David San Jose, Calif.
B.S., California (Davis), 1970
Calabrese, Daniel Anthony Brooklyn, N.Y.
B.S., New York University, 1971
M.S., Massachusetts Institute of Technology, 1973
Cambria, Richard Paul Roselle, N.J.
B.A., Holy Cross, 1973
Cervoni, Francisco Miguel San Juan, Puerto Rico
B.S., Le Moyne, 1972
Chamberlain, Marc Charles Berkeley, Calif.
B.A., California (Berkeley), 1973

Coonley, Craig Joseph Schenectady, N.Y.
B.S., Union (New York), 1973
Coverton, Ronald Wayne Richmond, Va.
B.A., Virginia, 1973
Davis, Jeffrey Paul Madison, Wis.
B.S., Wisconsin, 1968; Ph.D., 1972
Demartini, Paul Dean Englewood, N.J.
B.A., Columbia, 1972
Derenoncourt, Frantz Joseph Brooklyn, N.Y.
B.A., Columbia, 1972
Dietz, Frederick Richard Akron, Ohio
B.A., Harvard, 1973
Dodds, Peter Robert Stroudsburg, Pa.
B.A., East Stroudsburg State, 1973
Doubilet, Peter Michael Montreal, Canada
B.S., McGill, 1969
Ph.D., Massachusetts Institute of Technology, 1973
Dreher, Gerald Francis Brooklyn, N.Y.
B.A., Holy Cross, 1973
Dufresne, Craig Roger Shrewsbury, Mass.
B.A., Vermont, 1973
Dunaif, Andrea Elizabeth White Plains, N.Y.
B.A., Sarah Lawrence, 1973
Dworkin, Paul Adams, Mass.
B.S., M.S., Rensselaer Polytechnic Institute, 1972, 1973
Fanucchi, Michael Paul San Francisco, Calif.
B.S., Stanford, 1973
Fingerhut, James William Berkeley, Ill.
B.S., Illinois, 1973
Fitz-James, Ingrid Anne-Marie New York, N.Y.
B.A., Sarah Lawrence, 1973
Fox, James Lester, Jr. Wilmette, Ill.
B.A., Bowdoin, 1973
Frank, Susan Judith Roslyn, N.Y.
B.A., Pennsylvania, 1972
Garcia, Carmen Josefina Passaic, N.J.
B.A., Rutgers, 1973
Gerber, Diane Louise Park Forest, Ill.
B.A., Vassar, 1973
Goldman, Ira Steven Jericho, N.Y.
B.A., Rochester, 1973
Gorman, Jack Matthew Monsey, N.Y.
B.A., Pennsylvania, 1973
Gould, Robert John Patchogue, N.Y.
B.A., Tufts, 1973
Greenebaum, Ellen Scarsdale, N.Y.
B.A., Barnard, 1973
Griggs, Edward Albert, Jr. Livingston, N.J.
B.S., Yale, 1973
Grodman, Marc Dennis Newark, N.J.
B.A., Pennsylvania, 1973
Gualtieri, Richard John Brooklyn, N.Y.
B.A., Columbia, 1973
Gustafson, Gregory Miner Brookside, N.J.
B.A., Yale, 1971
Haasler, George Bruce Buffalo, N.Y.
B.A., SUNY (Buffalo), 1973
Halleran, David Ros New York, N.Y.
B.S., Villanova, 1973
Hammond, David B. New York, N.Y.
B.A., Rochester, 1973
Hayes, Frederick Dwayne New York, N.Y.
B.S., Pittsburgh, 1969
Heldman, Jay Perry Yonkers, N.Y.
B.A., Columbia, 1973
Heller, Caren Alyson Braintree, Mass.
B.A., Radcliffe, 1973
Henry, Ronald Maurice Washington, D.C.
B.S.E.E., North Carolina State, 1971
Hensel, Bruce Martin Bayside, N.Y.
B.A., California (Los Angeles), 1971
Herron, Merinda Juanita Atlanta, Ga.
B.A., Pennsylvania, 1973
Hillyard, David Randall Ogden, Utah
B.S., Utah, 1973
Hoffman, Mark Alan New Orleans, La.
B.A., Amherst, 1972
M.S., Tulane, 1973
Hutson, Glenda New York, N.Y.
B.S., Tougaloo, 1973
Jorgensen, Jacob William III Fair Oaks, Calif.
B.S., Massachusetts Institute of Technology, 1973
Juncos, Jorge Luis Bayamon, Puerto Rico
B.S., Puerto Rico, 1973
Kane, Mary Agnes New York, N.Y.
B.A., Barnard, 1973
Kantor, Lauren Woodbury, N.Y.
B.A., Pennsylvania, 1973
Kaplan, Jeffrey S. New York, N.Y.
B.S., State University of New York (Downstate), 1970
Kaufmann, Charles Arthur Forest Hills, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Kinney, Walter Keith Ardsley, N.Y.
B.A., Vassar, 1973
Knobler, Joanna Gabin New York, N.Y.
B.A., Radcliffe, 1972
Kopelman, Rima Gail Jericho, N.Y.
B.A., Barnard, 1971
Kopelson, Gene Oceanside, N.Y.
B.A., Princeton, 1973
Kritzler, Robert Kimball Saddle River, N.J.
B.A., Johns Hopkins, 1973
Kroop, Steven Arthur Brooklyn, N.Y.
B.S., Yale, 1973
Kutscher, Austin Harrison, Jr. Scarsdale, N.Y.
B.A., Columbia, 1973
Lane, Edward Michael Plandome, N.Y.
B.A., Columbia, 1972

Lattimer, Jon Kingsley Englewood, N.J.
B.A., Dartmouth, 1973
Legant, Patricia Albuquerque, N.M.
B.A., Stanford, 1968
Ph.D., Yale, 1973
Leibowitz, David Steven Berkeley, Calif.
B.A., Columbia, 1972
Levine, Joel Barry N. Bellmore, N.Y.
B.A., Pennsylvania, 1973
Lewis, Neville Barrington Norwalk, Conn.
B.S., Hartford, 1973
Lewis, Vivian Chicago, Ill.
B.A., Radcliffe, 1973
Light, Susan Ellen Pittsburgh, Pa.
B.A., Clark, 1973
Lindsey, Ronald Wayne Lakewood, N.J.
B.A., Yale, 1972
Liu, John Peter Rosedale, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Makadon, Harvey Jay Philadelphia, Pa.
B.A., Cornell, 1969
Matzkin, Ellen Melrose Park, Pa.
B.A., Smith, 1969
Mayer, Deborah A. New York, N.Y.
B.A., Wisconsin, 1968
Meehan, Justine Mary Plandome Manor, N.Y.
B.A., Newton College of the Sacred Heart, 1970
Mellow, Nancy Lynn Chicago, Ill.
B.A., Illinois, 1967
Mendes, Donna Maria Roosevelt, N.Y.
B.A., Hofstra, 1973
Milgrom, Martin Louis Snyder, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Mitchell, William James Lake Stevens, Wash.
B.A., Washington, 1973; B.S., 1973
Mottow, Linda Susan Brookline, Mass.
B.A., Radcliffe, 1973
Mouradian, Wendy Elyse Brooklyn, N.Y.
B.A., Wellesley, 1971
M.S., Massachusetts Institute of Technology, 1973
Natanson, Charles Milwaukee, Wis.
B.A., Wisconsin, 1972
Nath, Barbara Joyce Purchase, N.Y.
B.A., Smith, 1964
Orloff, Paul Norman Brooklyn, N.Y.
B.A., Syracuse, 1968
Otto, Nancy Ruth Everett, Wash.
B.A., SUNY (Albany), 1970
Pachtman, Erica Phoenix, Ariz.
B.A., Vassar, 1972
Pamelia, Frank Xavier Scranton, Pa.
B.S., Scranton, 1973
Pan, Ellen Day-mei New York, N.Y.
B.A., Barnard, 1973
Perez, Jose Ramon Kings Park, N.Y.
Duke University
Perrone, Howard Francis New York, N.Y.
B.A., Columbia, 1973
Phillips, Rogsbert Frenzel Decatur, Ga.
B.S., Georgia, 1970
M.S., Bridgeport, 1972
Prusnofsky, Leslie Brooklyn, N.Y.
B.S., Brooklyn, 1973
Pugh, George Arthur Youngstown, Ohio
B.A., Harvard, 1973
Rago, Thomas Anthony Trumbull, Conn.
B.A., Columbia, 1973
Recht, Lawrence David Bronx, N.Y.
B.A., New York University, 1973
Roberts, Thomas Elberry III Saratoga, Calif.
B.S., Stanford, 1973
Rodriguez-Villa, Fernando Jose
Rio Piedras, Puerto Rico
B.S., Puerto Rico, 1973
Roen, Janet Leslie New York, N.Y.
B.A., Radcliffe, 1973
Rohrer, Richard Jeffrey Cincinnati, Ohio
B.S., Yale, 1973
Rose, David Forest Hills, N.Y.
B.A., Haverford, 1973
Rosenthal, Linda Ellen San Carlos, Calif.
B.A., Stanford, 1973
Rosenwein, Marilyn Fay Kew Gardens, N.Y.
B.S., Clark, 1973
Rubin, Mark New York, N.Y.
Harvard
Rubinovitz, Michael S. New York, N.Y.
B.A., Yale, 1969
Ruderman, William Brandon Demarest, N.J.
B.A., Rochester, 1972
Sacks, Frank Martin Boston, Mass.
B.S., Brown, 1970
Sampson, Jas de Seabron Jacksonville, Fla.
B.A., Yale, 1973
Schaefer, Daniel William Los Angeles, Calif.
B.A., California (Los Angeles), 1972
Schuster, Allen Howard Kew Gardens, N.Y.
B.A., Columbia, 1972; M.A., 1973
Scolnick, Barbara Bronx, N.Y.
B.S., Barnard, 1973
Shangold, Gary Alan Perth Amboy, N.J.
B.A., Pennsylvania, 1973
Shapiro, Lee Schulman Paterson, N.J.
B.A., Yale, 1973
Siegel, Alice Jo Roslyn Heights, N.Y.
B.A., Smith, 1968
M.A., Columbia, 1970
M.A., Teachers College, 1971
Silverstein, Marc David Framingham, Mass.
B.S., Massachusetts Institute of Technology, 1971

Smith, Evelyn Meriden, Conn.
B.A., Smith, 1973
Smith, Steven Philip Murray, Ky.
B.A., Columbia, 1973
Spain, William Jonathen New York, N.Y.
B.S., Wisconsin, 1973
Spiro, Alan Hugh Bronx, N.Y.
B.A., New York University, 1973
Spotnitz, William David New York, N.Y.
B.A., Harvard, 1973
Stamm, Patricia Jane New York, N.Y.
B.A., Barnard, 1970
Stern, Robert Gary Hewlett, N.Y.
B.A., Harvard, 1973
Stillman, Margaret Ann Bay Shore, N.Y.
B.A., Yale, 1973
Stone, Ross G. Pottsville, Pa.
B.A., Yale, 1973
Streicher, Eric Michael Wilmington, Del.
B.A., Middlebury, 1973
Thorsen, Marie Kristin Milwaukee, Wis.
B.A., Wisconsin, 1969
Tropper, Pamela Joan Jericho, N.Y.
B.A., Brandeis, 1972
Vaida, George Arthur Rio Piedras, Puerto Rico
B.A., Fordham, 1972
Valente, Philip Thomas Long Island City, N.Y.
B.A., Columbia, 1971
Vasquez, Raphael Luis Bronx, N.Y.
B.S., City College, 1965
Washington, Eleby Rudolph Maplewood, N.J.
B.A., Brown, 1973
Weathers, Susan Wheeler Scarsdale, N.Y.
B.A., Oberlin, 1972
Webb, Hueldine Locust Grove, Ga.
B.S., Spelman, 1973
Williams, Antoinette Helena Hollis, N.Y.
B.A., Fisk, 1972
Wollack, Jan Brian Park Ridge, N.J.
B.S., Yale, 1973
Woolf, Paul Kenneth Worcester, Mass.
B.A., Brandeis, 1973
Ying, Christopher Y. Ridgewood, N.J.
B.S., Massachusetts Institute of Technology, 1973
Zachary, Kirk Jonathon Brooklyn, N.Y.
B.S., New York University, 1973
Zarian, Lawrence Peter Bayside, N.Y.
B.A., Columbia, 1973

Student Roster: Class of 1978

Aberizk, William Joseph, Jr. Lawrence, Mass.
B.A., Harvard, 1974
Addonizio, Gerard Carmen Medford, Mass.
B.A., Columbia, 1974
Albertsen, Peter Christian Tenafly, N.J.
B.A., Princeton, 1974
Alfano, Domenic F. Greenwich, Conn.
B.S., Fordham, 1973
Allen, Julian Lewis Bethlehem, Pa.
B.A., Columbia, 1974
Arnold, Linda Jennette Menlo Park, Calif.
B.A., Stanford, 1974
Arzeno, George Santurce, Puerto Rico
B.S., Massachusetts Institute of Technology, 1974
Ashwell, Jonathan David Bethesda, Md.
B.A., Colgate, 1974
August, Jeremy West Nyack, N.Y.
B.S., Johns Hopkins, 1974
Benvenisty, Alan Ira Merrick, N.Y.
B.S., Union (Schenectady), 1974
Berlinsky, Elaine Carol Providence, R.I.
B.A., Brown, 1970; M.S., Harvard, 1972
Bleicher, Robert Howard Fair Lawn, N.J.
B.S., Michigan, 1974
Bobryk, Eileen Hilton Bronx, N.Y.
B.A., Lehman, 1974
Bohler, Henry C. L. Hampton, Va.
B.S., Hampton Institute, 1974
Brauntuch, Glenn R. Greenwich, Conn.
B.A., Rochester, 1974
Brittain, David C. Ithaca, N.Y.
B.A., Middlebury, Vt., 1974
Cantor, Richard Stephen Roslyn, N.Y.
B.A., Rochester, 1974
Capeci, Ellen Marianne Pelham, N.Y.
B.A., Wellesley, 1974
Capone, Robert Anthony Jackson Heights, N.Y.
B.A., New York University, 1974
Carpenter, Duncan B. Scarsdale, N.Y.
B.A., Bowdoin, 1974
Chen, Clarence Lee Chicago, Ill.
B.A., Oberlin, 1970
Cohen, Mark William New Rochelle, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Comstock, Marcia L. Keene, N.H.
B.A., Manhattanville, 1974
Daly, Jennifer Susan Kettering, Ohio
B.A., Sarah Lawrence, 1973

Daniel, Samuel Jeremiah Bronx, N.Y.
B.A., Queens, 1974
Dewar, Jean New York, N.Y.
B.A., Barnard, 1973
DiSalvo, Donald Nicholas Hartsdale, N.Y.
B.A., Williams, 1974
Donnelly, Christine Marie Kew Gardens, N.Y.
B.A., Manhattanville, 1973
Edgerton, Ada Badillo Forest Hills, N.Y.
B.S., St. John's (New York), 1974
Fein, Alan Bruce Malverne, N.Y.
B.A., Rochester, 1974
Fithian, Thomas Edward Bridgeton, N.J.
B.A., Pennsylvania, 1974
Flood, Stephen J. Fond du Lac, Wisc.
B.A., Rippon, 1973
Fogelquist, Jan Elizabeth Dhahran, Saudi Arabia
B.A., Barnard, 1973
Frenk, Ellen New York, N.Y.
B.A., New York University, 1974
Friedman, Joseph Harold Yonkers, N.Y.
B.A., Chicago, 1969
Gladstone, Barbara A. New York, N.Y.
B.A., Queens, 1974
Goodrich, James Tait Laguna Beach, Calif.
B.S., California (Irvine), 1974
Hansen, Darcyjeanne Allendale, N.J.
B.A., Williams, 1974
Hartwig, George James San Francisco, Calif.
B.A., California (Berkeley), 1972
M.A., 1973
Heiken, Jay Paul N. Arlington, N.J.
B.A., Williams, 1974
Henrikson, Karl Eric Stamford, Conn.
B.A., Vermont, 1973
Herter, Geoffrey Elvin Manchester, Mass.
B.A., Harvard, 1973
Himmelstein, David Urius New York, N.Y.
B.A., Bennington, 1972
Hoagland, Peter Maclean Denver, Colo.
B.A., Harvard, 1974
Hollander, Ellen Lynne Forest Hills, N.Y.
B.A., Harpur, 1969
Horner, Thomas Martin Pittsburgh, Pa.
B.A., Columbia, 1974
Hritz, Ann Jo New York, N.Y.
B.S., SUNY (Buffalo), 1969
Hutt, Cheryl Sue Brooklyn, N.Y.
B.A., Barnard, 1974
Hyams, David Michael Miami, Fla.
B.A., Vassar, 1974
Jones, Ellen Elizabeth Frankfort, N.Y.
B.A., Smith, 1974
Jordan, James Lewis Stanford, Calif.
B.S., Stanford, 1974
Kaunitz, Andrew Moss Westport, Conn.
B.A., Brown, 1974
Kerin, Douglas W. New York, N.Y.
B.A., Pennsylvania, 1974
Kertzner, Robert Michael Brightwaters, N.Y.
B.A., Cornell, 1974
Kesselbrenner, Michael B. New York, N.Y.
B.A., Columbia, 1974
Kim, Ben Jackson Heights, N.Y.
B.A., Harvard, 1974
Koppel, Barbara Sue Fort Plain, N.Y.
B.A., Rochester, 1974
Kopynec, Bohdan William Deposit, N.Y.
B.A., SUNY (Binghamton), 1974
Krilov, Leonard Roy Bronx, N.Y.
B.A., Brandeis, 1973
LaBove, Phillip Stuart Deal, N.J.
B.S., Trinity (Connecticut), 1974
Lander, Richard Harding New York, N.Y.
B.A., Yale, 1968
Langa, Victoria Margaret Cherry Hill, N.J.
B.A., Rutgers, 1974
Larach, David Ross Princeton, N.J.
B.A., Princeton, 1974
Larmon, Steven Sigurd Olean, N.Y.
B.A., Dartmouth, 1974
Lauer, Robert Charles Madison, N.J.
B.S., Bucknell, 1968
Lawrence, Denise E. New York, N.Y.
B.A., Manhattanville, 1968
Lemberg, Steven Bayside, N.Y.
B.S., SUNY (Stony Brook), 1974
Lessing, David Portland, Ore.
B.A., Columbia, 1974
Levine, Stewart Cedarhurst, N.Y.
B.A., New York University, 1974
Lim, Suzanne Lee New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Magidson, Jory Glen Tenafly, N.J.
B.A., Rochester, 1974
Mandelbaum, David E. New York, N.Y.
B.A., Columbia, 1974
Manning, Reginald Eugene Brooklyn, N.Y.
B.A., Columbia, 1974
Manson, Carolyn Sue Cleveland Heights, Ohio
B.A., Yale, 1973
Marchand, Babette Greenwich, Conn.
B.A., Pennsylvania, 1973
Margulis, Elynne Beth Williston Park, N.Y.
B.S., Yale, 1974
Meisler, William Jay Teaneck, N.J.
B.A., Columbia, 1974
Melnick, David Alan Valley Stream, N.Y.
B.A., Columbia, 1974
Meyers, Peter Kevin Staten Island, N.Y.
B.A., Columbia, 1974

Monsanto, Enrique H. Whitestone, N.Y.
B.A., Queens, 1972
Mossberg, Jane Elizabeth New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Murphy, William Ignatius III Pasadena, Calif.
B.S., Fordham, 1967
Nagelberg, Steven Brooks Tarrytown, N.Y.
Bucknell
Neil, Claudette Hope Boston, Mass.
B.A., Princeton, 1974
Nepola, James Vincent Ridgewood, N.J.
B.S., Yale, 1974
Newmark, Jonathan Maplewood, N.J.
B.A., Harvard, 1974
Ostow, Abigail Ruth Riverdale, N.Y.
B.A., Wellesley, 1974
Owens, Lance Stuart Salt Lake City, Utah
B.A., Utah State, 1974
Paetzold, Nancy M. Massapequa Park, N.Y.
B.A., Adelphi, 1973
Peart, Harold T. Brooklyn, N.Y.
B.S., M.A., Howard, 1971, 1973
Phillips, Arnold Morris New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Piro, Philip A. Encino, Calif.
B.S., Yale, 1974
Propper, Michael Steven Westbury, N.Y.
B.A., B.S., Pennsylvania, 1974
Puleo, Peter Robert Brooklyn, N.Y.
B.A., Princeton, 1974
Rak, Ihor Wolodymyr Astoria, N.Y.
B.S., City College, 1974
Rattner, Susan Lee Troy, N.Y.
B.S., Union (Schenectady), 1974
Reife, Ross Alexander Hillside, N.J.
B.A., Pennsylvania, 1974
Reynard, Michael Daly City, Calif.
B.S., Stanford, 1974
Riester, Carolyn E. Huntingdon Valley, Pa.
B.S., Yale, 1974
Roberts, Richard Scott Pearl River, N.Y.
B.S., Colgate, 1974
Rock, Ira Glenn New York, N.Y.
B.A., Lawrence, 1974
Roisman, Jeffrey A. New York, N.Y.
B.A., Columbia, 1972
Rosecan, Jeffrey Sanford St. Louis, Mo.
B.A., Columbia, 1974
Rosen, Barry L. Highland Park, Ill.
B.S., Haverford, 1974
Rosenthal, Robert Louis Sands Point, N.Y.
B.A., Yale, 1974
Ruby, Steven Todd Boston, Mass.
B.A., Brandeis, 1974
Santulli, Thomas Vincent East Greenwich, R.I.
B.A., Columbia, 1966
Schackman, Lynn Debra New York, N.Y.
B.S., Yale, 1974
Schaffner, Andrea New York, N.Y.
B.A., Barnard, 1973
Schanck, Carolyn Agnes Albertson, N.Y.
B.S., Mount Saint Vincent, 1974
Schwartz, Lawrence Alan Scarsdale, N.Y.
B.A., Rochester, 1974
Sharp, Thomas Glinn Houston, Texas
B.A., Harvard, 1974
Sherwood, James Alan DeWitt, N.Y.
B.A., Hamilton, 1974
Sibley, Robert Emmett Staten Island, N.Y.
B.S., Notre Dame, 1974
Silver, Daniel Henry Los Angeles, Calif.
B.A., California (Berkeley) 1974
Soffer, Mark Jay Jackson Heights, N.Y.
B.A., Yale, 1972
Soong, Hunson Silver Spring, Md.
B.S., Massachusetts Institute of Technology, 1971
Sporn, Aaron Adolph Rosedale, N.Y.
B.S., SUNY (Stony Brook), 1974
Stein, Bruce Elliot Freeport, N.Y.
B.A., Pennsylvania, 1974
Stein, Douglas George Northboro, Mass.
B.S., Tufts, 1974
Steiner, Mark Edward Bloomfield Hills, Mich.
B.A., Harvard, 1972
Stern, Elizabeth Kay East Lansing, Mich.
B.A., Michigan State, 1967
Stetz, Dean Edward Bayside, N.Y.
B.A., Columbia, 1974
Stiff, Jacqueline Elaine Brooklyn, N.Y.
B.S., Cornell, 1974
Szpaizman, Sergio Bronx, N.Y.
B.A., Lehman, 1974
Tergis, Dorian Christopher Riverdale, N.Y.
B.S., Columbia, 1974
Thompson, Mindy Jennifer New York, N.Y.
B.A., Bryn Mawr, 1971
Trommer, Barbara Lois Kew Gardens, N.Y.
B.A., Queens, 1974
Tucker, James Newman Elkins Park, Pa.
B.S., Tufts, 1974
Velazquez, Nelvis Hialeah, Fla.
B.A., Barnard, 1974
Versfelt, Mary Deborah Webster, N.Y.
B.A., Princeton, 1974
Wagman, Lawrence David Hempstead, N.Y.
B.A., SUNY (Buffalo), 1974
Wang, Victoria Adrian Rhode Island, N.Y.
B.A., Cornell, 1974

Ward, Robert J. Douglaston, N.Y.
B.S., Fairfield, 1974
Warshavsky, Calvin Robert Scarsdale, N.Y.
B.A., Princeton, 1974
Weinstock, Ruth Sue Bayside, N.Y.
B.A., Smith, 1974
Weitzman, Stephen Mitchell New Bedford, Mass.
B.A., Bowdoin, 1974
White, John Vincent Oak Park, Ill.
B.A., Northwestern, 1974
Widman, Lawrence Edward Elkins Park, Pa.
B.S., Massachusetts Institute of Technology, 1973
Wilking, Andrew Pray New York, N.Y.
B.A., Harvard, 1972
Winkler, Barbara Anne Bayside, N.Y.
B.A., Queens, 1974
Wolinsky, David Gary Rochester, N.Y.
B.A., Columbia, 1974
Ziebur, Martha Alice Binghamton, N.Y.
B.A., Swarthmore, 1974

Student Roster: Class of 1979

Aisen, Paul Stephen Scarsdale, N.Y.
B.A., Harvard, 1975
Alexander, David Todd Matawan, N.J.
B.S., Yale, 1975
Aranow, Michael Henry Hastings-on-Hudson, N.Y.
B.A., Harvard, 1975
Arden, James Richard New York, N.Y.
B.A., Columbia, 1971
Asherman, Steven Michael New York, N.Y.
B.A., Columbia, 1975
Barry, Elizabeth Glen Cove, N.Y.
B.A., Pennsylvania, 1973
Barry, M. Anita Towson, Md.
B.S., Georgetown, 1975
Barton, Brooke Millon New York, N.Y.
B.A., Princeton, 1975
Bassett, Mary Travis New York, N.Y.
B.A., Radcliffe, 1974
Becker, Mary Alice Bronx, N.Y.
B.S., Mount Saint Vincent, 1966
Bernstein, Debra Jean Plainview, N.Y.
B.S., SUNY (Stony Brook), 1975
Bitetti, Janice Marie Huntington, N.Y.
B.S., Wellesley, 1975
Bluh, Donald Gary Long Island City, N.Y.
B.A., Columbia, 1973
Blumenthal, Celia Beth New York, N.Y.
B.A., Barnard, 1974
Bogdan, Susan Lee Lake Mohegan, N.Y.
B.S., SUNY (Cortland), 1967
M.S., Sarah Lawrence, 1975
Boucher, Ralph Albert Flushing, N.Y.
B.A., Yale, 1975
Boxhill, Agnes Mary New York, N.Y.
B.S., City College, 1974
Brin, Mitchell Francis Livingston, N.J.
B.A., Pennsylvania, 1975
Bustin, Kathie L. Wellesley, Mass.
B.A., Middlebury, 1971
Cadet, Jean Lud Brooklyn, N.Y.
B.S., Brooklyn, 1975
Cafferty, Maureen Sarah Jackson Heights, N.Y.
B.S., St. John's (New York), 1975
Cali, Michael Dennis Jamestown, N.Y.
B.A., Rochester, 1975
Camras, Carl Bruce Glencoe, Ill.
B.A., Yale, 1974
Chodos, Joel Ethan Bronx, N.Y.
B.A., Columbia, 1975
Cohen, Samuel Mark Far Rockaway, N.Y.
B.A., Rochester, 1975
Conway, Stephen Robert Hartford, Conn.
B.A., Amherst, 1975
Craig, Michael Joseph New Milford, N.J.
B.A., Columbia, 1975
Creger, Philip Sterne Stanford, Calif.
B.A., Stanford, 1975
Csete, Marie Elizabeth Colonia, N.J.
B.A., Princeton, 1975
Cuadros, Cesar Luis Santa Monica, Calif.
B.S., California (Los Angeles), 1975
Curtis, Anne Bernadette Penfield, N.Y.
B.A., Douglass, 1975
DeFelippo, Noel Peter Brooklyn, N.Y.
B.S., SUNY (Stony Brook), 1975
DiBiase, John Joseph Bronx, N.Y.
B.E., Cooper Union, 1975
Diefenbach, William Paul Southampton, N.Y.
B.A., Columbia, 1972
Edinburgh, David Miles Great Neck, N.Y.
B.S., Massachusetts Institute of Technology, 1975
Evans, Walter Francis II Warwick, N.Y.
B.A., Dartmouth, 1975
Flick, Jonathan Andrew Roslyn Heights, N.Y.
B.S., Yale, 1975
Forem, Sandra Lee Bronx, N.Y.
B.A., Barnard, 1975

Gilbard, Jeffrey Paul Roslyn, N.Y.
B.A., Brown, 1975
Gordon, Kimberly Woodbridge, Conn.
B.A., Smith, 1975
Grelsamer, Ronald Paul New York, N.Y.
B.A., B.S., Brown, 1975
Harary, Albert Maurice West Palm Beach, Fla.
B.A., Harvard, 1975
Holmberg, Scott Dewey Canton, Mass.
B.A., Harvard, 1971
Horowitz, Nina Ruth Silver Spring, Md.
B.A., Yale, 1975
Howard, Tomasz Dimitri New York, N.Y.
B.A., Columbia, 1975
Hradesky, Christine Louise Clearwater, Fla.
B.A., Cornell, 1973
Hultberg, Nancy Lee Brooklyn, N.Y.
B.A., Carleton, 1972
Jacobs, Michael Aaron Short Hills, N.J.
B.A., Bowdoin, 1975
Jacobson, Ira M. Brooklyn, N.Y.
B.S., Yale, 1975
Johnson, Lawrence Philip Ridgewood, N.J.
B.A., Dartmouth, 1975
Jozefowicz, Ralph Francis Woodside, N.Y.
B.A., Johns Hopkins, 1975
Kahn, David Alan Great Neck, N.Y.
B.A., Haverford, 1975
Kahn, Jeffrey Paul Scarsdale, N.Y.
B.A., Swarthmore, 1975
Katz, Martha Ellen New York, N.Y.
B.A., Barnard, 1974
Kelsey, Peter Baker Rye, N.Y.
B.A., Princeton, 1975
Klutchko, Lynn Carol Massapequa Park, N.Y.
B.A., Yale, 1975
Knapp, Albert Bruce New York, N.Y.
B.A., Columbia, 1975
Knox, Karen Burnet Wilmington, Del.
B.A., Harvard, 1975
Korn, Jane Ellen Brooklyn, N.Y.
B.A., Michigan, 1975
Kosovsky, Karen Ann New York, N.Y.
B.A., Brown, 1975
Kucharchik, Thomas Farmingdale, N.Y.
B.A., Harvard, 1975
Kudlak, Theresa Tatiana Brooklyn, N.Y.
B.A., Barnard, 1971
Kurth, Donald James, Jr. Westwood, N.J.
B.A., Columbia, 1975
Kwiatkowski, David Joseph Middleville, N.Y.
B.S., California Institute of Technology, 1972
Labinson, Robert Merrill Fort Lee, N.J.
B.A., Rutgers, 1975
Lamm, Joel Lewis Roslyn Harbor, N.Y.
B.A., Brandeis, 1975
Lee, David Kuo-Ping Poughkeepsie, N.Y.
B.A., Yale, 1975
Lehman, Lawrence Brad Little Neck, N.Y.
B.A., Hofstra, 1975
Leibowitz, Steven Philadelphia, Pa.
B.A., Brandeis, 1975
Leventhal, Jeanne Louise Berkeley, Calif.
B.A., California (Berkeley), 1975
Levitan, Sara Anne New York, N.Y.
B.A., Hunter, 1975
Li, Lawrence Roslyn, N.Y.
B.A., Harvard, 1975
Lidofsky, Steven David Brooklyn, N.Y.
B.A., Columbia, 1975
Linder, Barbara Laura Bronx, N.Y.
B.S., Cornell, 1975
Liskin, Barbara Ann Englewood, N.J.
B.A., Smith, 1974
Litsky, Alan Steven New Britain, Conn.
B.A., Princeton, 1975
Lowe, Franklin Charles New York, N.Y.
B.A., Princeton, 1975
McCrimons, Daniel Everett St. Albans, N.Y.
B.A., Harvard, 1975
McDonald, Patricia Ann Chicago, Ill.
B.A., Dartmouth, 1975
Madoff, Robert David Newton Centre, Mass.
B.A., Harvard, 1975
Manevitz, Alan Z. A. Brooklyn, N.Y.
B.S., Brooklyn, 1975
Mark, Laurence Peter New York, N.Y.
B.S., Harvey Mudd, 1975
Marks, Elizabeth Leah New York, N.Y.
B.A., Radcliffe, 1974
Martin, Eva Berkeley, Calif.
B.A., California (Berkeley), 1975
Matsuba, Howard Mitsuyuki Honolulu, Hawaii
B.A., Hawaii, 1974
Maxwell, Celia J. St. Albans, N.Y.
B.S., Hunter, 1973
Mercado, Nydia Esther New York, N.Y.
B.A., Hunter, 1975
Merkow, Robert Lewis Madison, Wisc.
B.A., Wisconsin, 1975
Miller, Andrew David Allentown, Pa.
B.A., Princeton, 1975
Mitchell, Heather Lee Springfield, Mass.
B.A., Valparaiso, 1975
Morrison, David Scott Woonsocket, R.I.
B.A., Holy Cross, 1975
Muncaster, Richard Bernard Woodstown, N.J.
B.A., Yale, 1975
Orell, Jeffrey Allan Baldwin, N.Y.
B.A., Columbia, 1974
Orenstein, Harry Herman Mystic, Conn.
B.A., Harvard, 1975

Oshiyoye, Adekunle E. Lagos, Nigeria
B.S., Howard, 1974
Packer, Michael Gordon Bristol, R.I.
B.A., Harvard, 1975
Palmisano, Joanne Joyce Union, N.J.
B.S., Maryland, 1974
Peyser, Karen Edna New York, N.Y.
B.A., Barnard, 1973
Polan, H. Jonathan Merion, Pa.
B.A., Princeton, 1974
Pollack, David Mark Cedarhurst, N.Y.
B.A., Brown, 1975
Pollack, Geoffrey Jay Whitestone, N.Y.
B.A., Columbia, 1975
Pollack, Steven Allen Whitestone, N.Y.
B.A., Columbia, 1975
Purcell, Ralph N. New York, N.Y.
B.A., Columbia, 1975
Quarnstrom, Thomas James St. Clair Shores, Mich.
B.A., Columbia, 1975
Raiken, Deborah Faye Williamsville, N.Y.
B.A., Brandeis, 1974
Rauf, Paul Wesley Poughkeepsie, N.Y.
B.S., Columbia, 1970
Rayport, Stephen Gregory Perrysburg, Ohio
B.A., Harvard, 1975
Ronner, Hilary Jane Bronx, N.Y.
B.A., Barnard, 1975
Rosenberg, Fran Ellen Syosset, N.Y.
B.S., Cornell, 1975
Ross, Alan Barry Union, N.J.
B.A., Cornell, 1972
Roth, Philip Brooklyn, N.Y.
B.A., Columbia, 1975
Rubinstein, Alina Anna New York, N.Y.
B.A., New York University, 1967
Russo, Paul Ithaca, N.Y.
B.A., Colgate, 1975
Satlin, Lisa Michelle White Plains, N.Y.
B.A., Mount Holyoke, 1975
Scerbo, James Alexander Morris Plains, N.J.
B.A., Bucknell, 1975
Schlesinger, Mark Paul Cranford, N.J.
B.A., Rutgers, 1975
Schubert, Armin Reichenau bei Linz, Austria
B.S., Yale, 1975
Schwartz, Harold I. New York, N.Y.
B.A., Queens, 1969
Sciascia, Thomas Richard Buffalo, N.Y.
B.S., Massachusetts Institute of Technology, 1975
Seaman, Cheryl Tenafly, N.J.
M.A., Chicago
Sebag, Jerry Flushing, N.Y.
B.A., Columbia, 1973
Seitz, William Henry, Jr. Staten Island, N.Y.
B.S., Fairfield, 1971
Shapiro, David Matthew Chicago, Ill.
B.A., Princeton, 1975
Siegel, Robert Errol Flushing, N.Y.
B.A., Queens, 1975
Siegfried, Virginia Ann Redwood City, Calif.
B.S., Stanford, 1975
Silbert, Glenn R. Woodbury, N.Y.
B.S., Columbia, 1975
Sims, Nathaniel Merriman South Burlington, Vt.
B.A., Harvard, 1975
Stackhouse, Thomas G. Hamilton Square, N.J.
B.S., Muhlenberg, 1975
Stark, Barbara J. Garden City, N.Y.
B.A., Smith, 1975
Stein, H. David Newton, Mass.
B.A., Brandeis, 1975
Stevens, Laurie Ann Palo Alto, Calif.
B.A., Yale, 1975
Stork, Linda Claudette Englewood, N.J.
B.A., Yale, 1974
Struthers, Charlene Middleton Livermore, Calif.
B.A., Stanford, 1975
Stuchiner, David Jon New York, N.Y.
B.A., Sarah Lawrence, 1975
Sulis, Carol Ann Lynnfield, Mass.
B.A., Wellesley, 1973
Sybert, Peter Egon Walnut Creek, Calif.
B.A., California (Berkeley), 1975
Taus, Richard Howard Bronx, N.Y.
B.A., Yale, 1975
Thane, Michael William Harpersfield, N.Y.
B.S., Cornell, 1975
Ultmann, Monica Heidi Chicago, Ill.
B.A., Oberlin, 1975
Werner, Morgan Simon Scarsdale, N.Y.
B.A., Colorado, 1975
Wissel, Paul Stephen Scarsdale, N.Y.
B.S., Baldwin-Wallace, 1974
Witzel, Phyllis Beth Elizabeth, N.J.
B.A., Brandeis, 1975
Wormser, Andrew Charles New York, N.Y.
B.A., Princeton, 1975
Yacovone, Joseph Fred Elmhurst, N.Y.
B.A., Columbia, 1975
Zatzkis, Mark Asher West Orange, N.J.
B.A., Harvard, 1975
Zolnik, Lawrence Anthony Meriden, Conn.
Columbia
Zuflacht, Richard Neil Old Westbury, N.Y.
B.A., Williams, 1975

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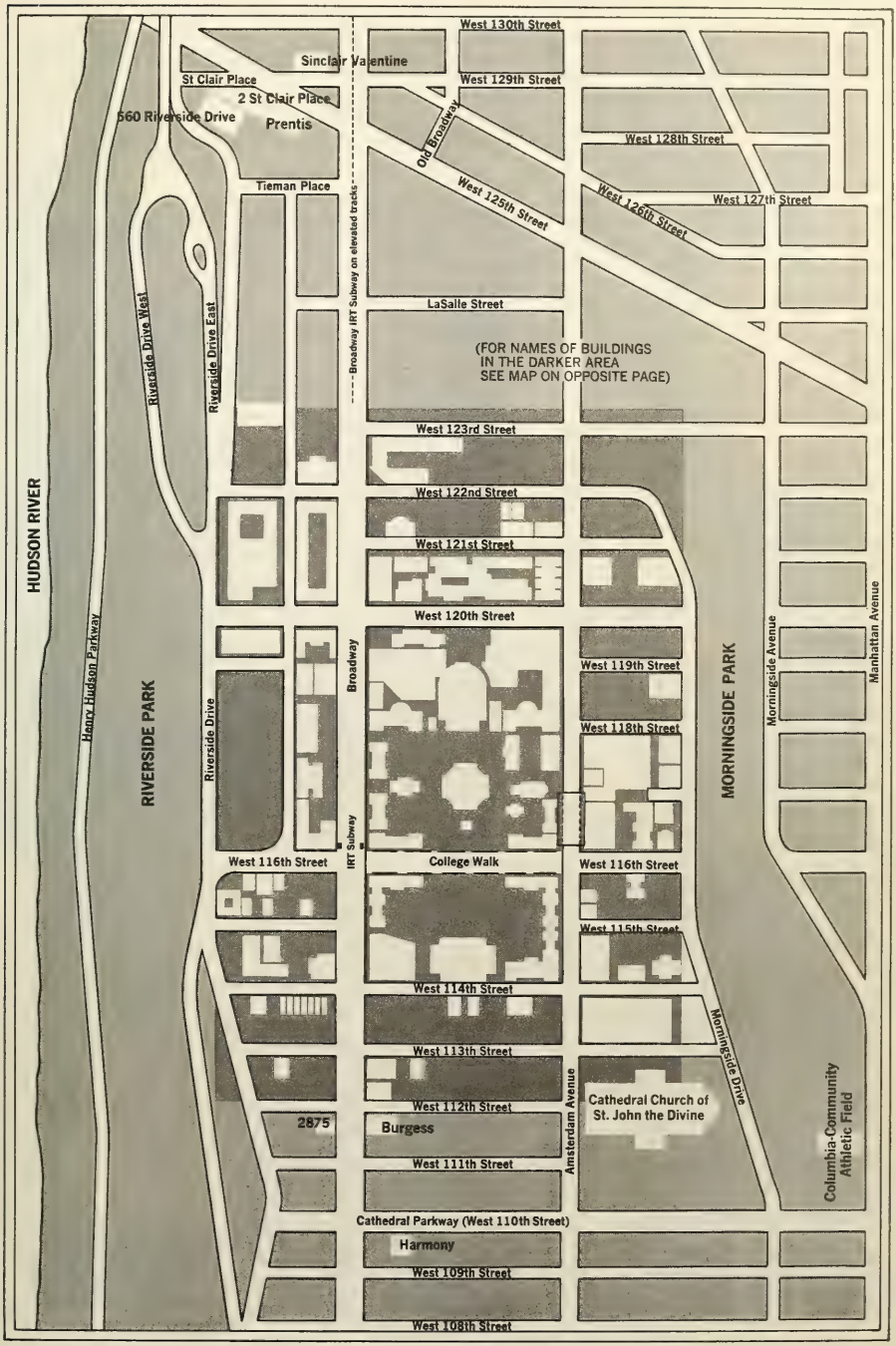

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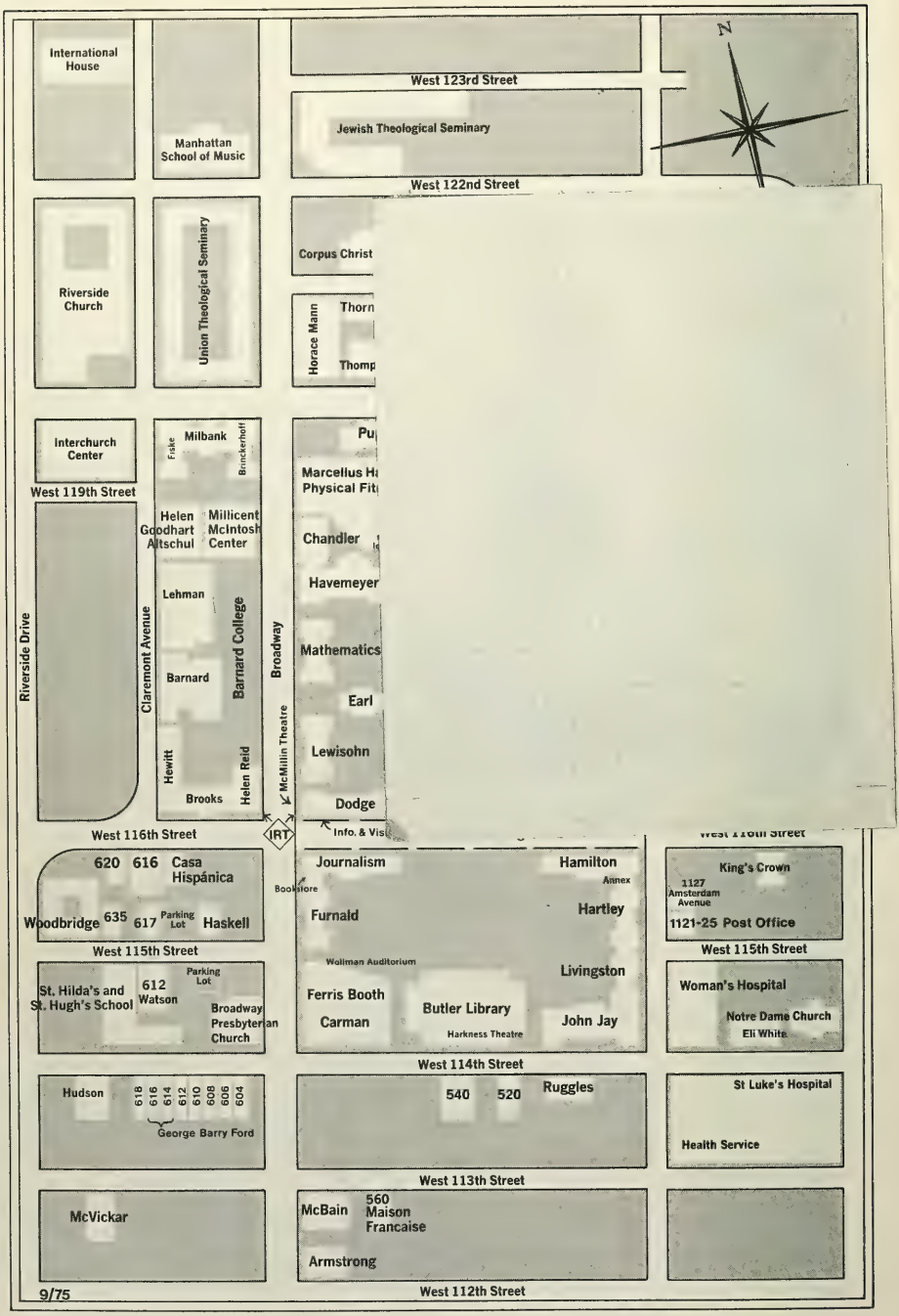

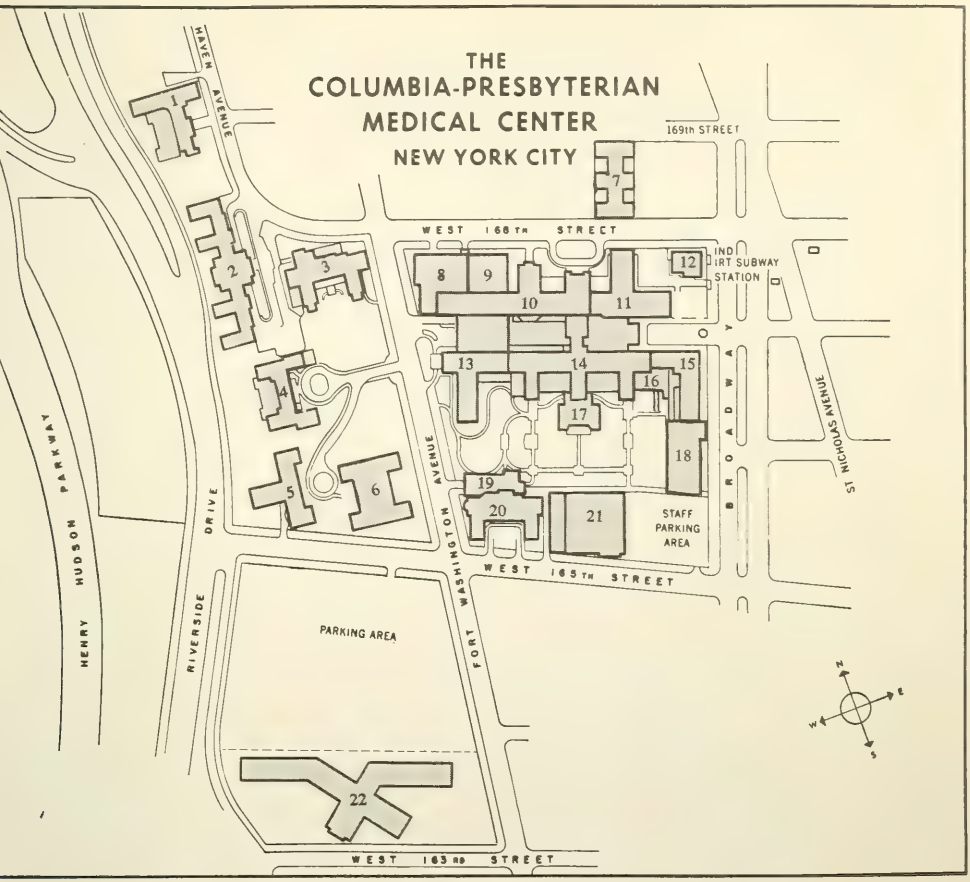

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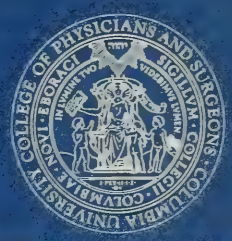

September 27, 1976

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Columbia University Bulletin • *Volume 10* • *Number 19*

Published monthly in January, February, March, April, and May; semi-monthly in June; weekly in July, August, and September, by Columbia University, New York, N.Y. 10027. Second Class postage paid at New York, N.Y.

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Columbia University Bulletin

SEPTEMBER 27, 1976, ISSUE, WITH INFORMATION APPLYING TO 1976-1977

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ACADEMIC CALENDAR, 1976–1977

MAJOR RELIGIOUS HOLIDAYS

See *Admission, Registration, and Expenses*—Attendance for a statement of University policy on absence for the observance of religious holidays.

June	29	Tuesday, through July 1, Thursday.* Registration, including payment of fees, for third- and fourth-year students.
July	1	**Thursday. Academic year begins for third- and fourth-year students.**
	5	**Monday. Holiday for third- and fourth-year students.**
Aug	2	Monday.† Last day to apply or reapply for October degrees (see September 9).
	23–27	Monday–Friday. Optional early registration for second-year students.
Sept	2–3	Thursday–Friday.* Registration, including payment of fees, for first- and second-year students.
	6	**Monday. Labor Day. Holiday for third- and fourth-year students.**
	7	**Tuesday. Academic year begins for first- and second-year students.**
	9	Thursday. Last day to file *late* application for October degrees.
Oct	27	**Wednesday. Award of October degrees.**
Nov	2	**Tuesday. Election Day. Holiday for first- and second-year students.**
	5	Friday.† Last day to apply or reapply for January degrees (see December 10).
	25–26	**Thursday–Friday. Thanksgiving holidays for first-, second-, and third-year students.**
Dec	10	Friday. Last day to file *late* application for January degrees.
	18	**Saturday, through January 2, 1977, Sunday. Vacation for first-, second-, and third-year students.**
Jan	14	Friday. First semester ends for first-year students.
Jan	17	Monday. Second semester begins for first-year students.
	26	**Wednesday. Award of January degrees.**

*Students allowed to register after the period specified must pay a late fee.
†Students who apply after this date must pay a late fee.

Feb	**21**	**Monday. Washington's Birthday. Holiday for first- and second-year students.**
	21	Monday.* Last day to apply or reapply for May degrees (see April 11).
Apr	**2–17**	**Saturday–Sunday. Vacation for first-year students.**
	11	Monday. Last day to file *late* application for May degrees.
	13–24	**Wednesday–Sunday. Vacation for second-year students.**
	22	Friday. Major Clinical Year concludes for third-year students.
	23	**Saturday, through May 1, Sunday. Vacation for third-year students.**
	25	Monday. Major Clinical Year begins for second-year students.
May	**2**	Monday. Elective curriculum begins for third-year students.
	4	Wednesday. Dean's Day for Medical Student Research.
	18	**Wednesday. Commencement and P&S Convocation.**
	30	**Monday. Memorial Day. Holiday for all students.**
June	**4–19**	**Saturday–Sunday. Vacation for second-year students.**
	10	Friday. Second semester ends for first-year students.
	20	Monday. Major Clinical Year resumes for second-year students.

Dates of National Board Exams

Part I	September 8–9, 1976
Part II	September 28–29, 1976 April 12–13, 1977
Part I	June 14–15, 1977

*Students who apply after this date must pay a late fee.

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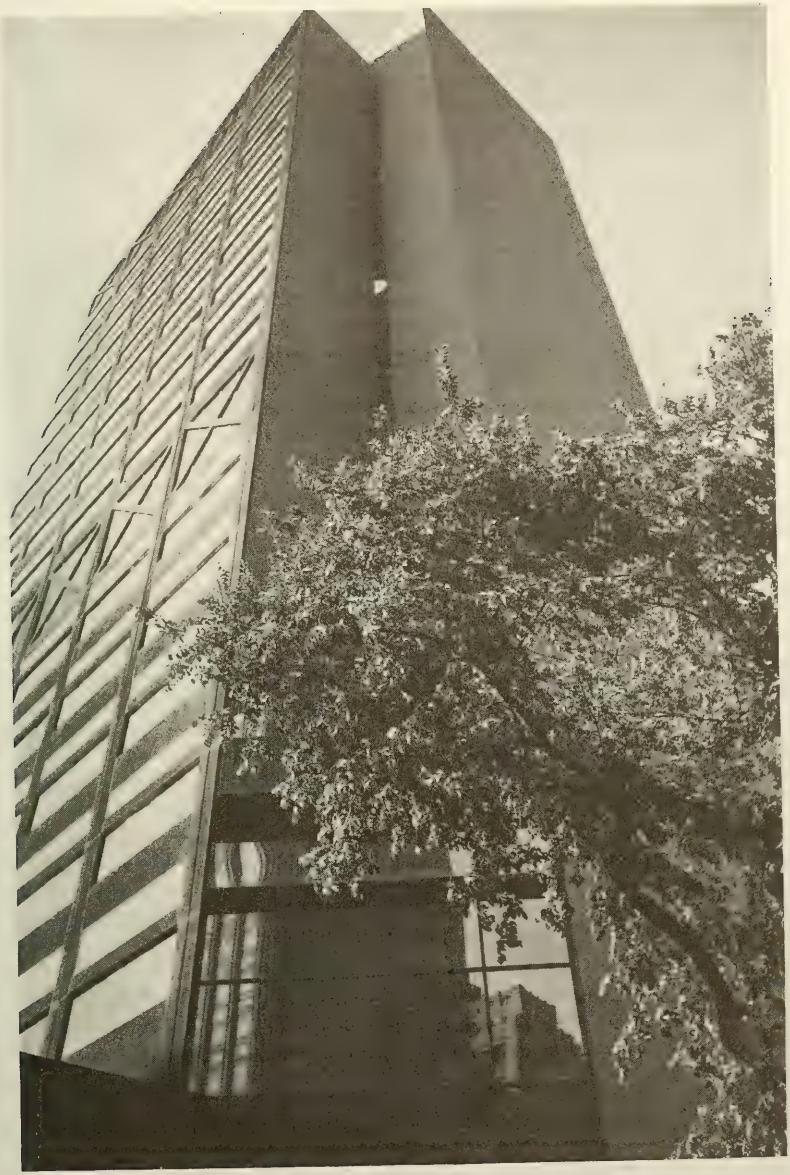
Mary Imogene Bassett Hospital

Overlook Hospital



The Augustus Long Library—Health Sciences Center

THE COLLEGE OF PHYSICIANS AND SURGEONS AND AFFILIATED HOSPITALS

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

HISTORY OF THE COLLEGE AND THE UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery;

the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; Francis Delafield Hospital; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Health Sciences Center–Augustus Long Library, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

HEALTH SCIENCES LIBRARY

The Columbia University Health Sciences Library is housed in the new Health Sciences Center–Augustus Long Library. This eighteen-story, multimillion-dollar tower was completed in 1976 and provides a modern and efficient environment for study, teaching, and research. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 335,000 volumes and a staff of 34, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 3,000 periodicals are received regularly. An entire floor of the library has been designated as a media center and is equipped with a variety of audiovisual materials. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. A library handbook and other materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of Harvard and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Student memberships in the New York Academy of Medicine Library (at 103rd Street and Fifth Avenue) are available for an annual fee. Applications for membership, which includes borrowing privileges, should be directed to the Academy Library.

CANCER RESEARCH CENTER

The Cancer Research Center serves to coordinate, integrate, and facilitate cancer research at the Columbia-Presbyterian Medical Center and its affiliated institutions. The Cancer Research Center is organized to promote the efficient and cooperative use of all Cancer Research Center resources, to maximize the dissemination of information among Center personnel, and to facilitate the rapid translation of research findings into pro-

grams for improving clinical care of cancer patients. The Center is also charged with responsibility for research and cancer patient care by all health professionals.

The operational elements of the Cancer Research Center are the Scientific Sections. These represent coordinated and integrated interdisciplinary and interdepartmental programs of research, both laboratory and clinical, organized according to their cancer research goals. These sections include: Cancer Therapy, Causation, Clinical Immunology, Hormones and Neoplastic Cell Growth, and Patient Care Development.

CENTER FOR COMMUNITY HEALTH SYSTEMS

The Center for Community Health Systems is an interdisciplinary and interdepartmental project which enlists varied resources of the University, particularly those of the Faculty of Medicine and its affiliated hospitals, in a systematic attack on problems in the organization and delivery of health care, with a predominant, though not exclusive, focus on urban areas.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of the Columbia University College of Physicians and Surgeons was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the College of Physicians and Surgeons in 1938. The Francis Delafield Hospital later became the center of clinical and experimental cancer research at P&S. In 1967 a five-story research wing was added to the Delafield Hospital, enabling the consolidation of all the laboratories of the Institute in one building. In 1976, the Institute moved into the new Health Sciences Center at Fort Washington Avenue and 168th Street. The laboratories now provide the means for extensive investigations of many aspects of cancer and for the postgraduate training of scientists in this field.

INSTITUTE OF HUMAN NUTRITION

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition which relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are underway, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the 7th floor of the Health Sciencs Center–Augustus Long Library.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. The Institute consists of the Center for Reproductive Biology, including the divisions of reproductive biochemistry, physiology, and reproductive morphology, and the Center for Population Sciences, which includes the divisions of social and administration sciences, family life services, clinical evaluation, and sexual behavior.

The office of the Director of the International Institute for the Study of Human Reproduction is on the main floor of the Bard-Haven Apartments, 78 Haven Avenue.

BARD HALL

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for men and women students of the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

BARD HAVEN TOWERS

The Bard Haven Towers consist of three thirty-one-story apartment towers for married students, faculty members, and staff of Columbia University and affiliated institutions. The Towers are located between 169th and 171st streets on the west side of Haven Avenue overlooking Riverside Drive and the Hudson River.

Affiliated Hospitals

THE PRESBYTERIAN HOSPITAL

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,550 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their thirteenth birthday, and care for premature babies. The total capacity of the hospital is 194. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a total capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 324 adult private patients.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of nervous diseases, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary and Hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 122 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building and one floor in Harkness Pavilion. There are 187 beds, of which 124 are ward beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of the Presbyterian Hospital.

THE MARY IMOGENE BASSETT HOSPITAL

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 183 beds and a full-time staff of specialists. In 1972 the staff saw 92,000 patients on an outpatient basis. A close liaison between the community medical resources and the hospital staff creates a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. Since 1947 the hospital has had a formal affiliation with Columbia, and each year approximately forty students from Columbia elect programs at the Mary Imogene Bassett Hospital.

HARLEM HOSPITAL CENTER

Harlem Hospital Center, founded in 1887, is a general hospital of nearly eleven hundred beds serving Central Harlem and environs, responsible for the care of approximately four hundred thousand people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

THE HELEN HAYES HOSPITAL

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is a 150-bed independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. New patient facilities are under construction, the research building has been renovated, and an active biomedical engineering unit developed.

OVERLOOK HOSPITAL

Overlook Hospital in Summit, New Jersey, is a 540-bed, suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and the primary care aspects of medical practice through a program of broad-based clinical experience for graduate physicians.

ST. LUKE'S HOSPITAL

St. Luke's Hospital Center was established in 1850 and has been located on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center, which contains 773 beds, including 53 pediatric beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than ninety thousand visits a year and the various clinics almost one hundred seventy thousand visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

THE ROOSEVELT HOSPITAL

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about two hundred sixty-three thousand outpatient and emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Ad-

diction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

NEW YORK STATE PSYCHIATRIC INSTITUTE

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

ADMISSION, REGISTRATION AND EXPENSES

Entering classes are enrolled in the College once each year in September. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions. All applicants receive consideration for admission without regard to race, creed, color, national origin, or sex.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form which may be obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores if this test has been taken. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of 147 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to consider alternatives and make decisions, and has developed a desire for a continuous program of self-education. In the selection of students, preference is given to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who have already given evidence that they are likely to become ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

ADMISSION TO ADVANCED STANDING

Only a very small number of vacancies, at most, occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere but, in the past, the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been unable to evaluate the credentials of such applicants. As a result, the Committee has been able to admit relatively few individuals either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. At registration a student provides the information required and pays his tuition and fees. The Office of the Registrar, on the third floor of the College building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Those who do not now have a number should obtain one from their local Social Security office well in advance of registration.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his or her fees have been paid. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period unless he or she obtains the written consent of the appropriate dean or director.

CONDUCT

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

ATTENDANCE

Students are held accountable for absences incurred owing to late enrollment.

RELIGIOUS HOLIDAYS

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence due to religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Some of the major holidays occurring on weekdays during the current academic year are:

Monday, October 4	Yom Kippur
Monday, April 4	Second day of Pesach
Friday, April 8	Good Friday

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (P&S, Room 3–412) no later than September 17 in the autumn term and February 2 in the spring term. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Tuition, the student health service fee, and the health insurance premium are payable in advance and as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (see the Academic Calendar), they will not be reduced, and a late fee of $10 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

TUITION

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$4,110.00

RESEARCH IN RESIDENCE

During the academic year, for any period or part of a period not longer than an autumn term, spring term, or summer	$165.00

HEALTH SERVICE AND HOSPITAL INSURANCE FEES

For all full-time students, per year (September 1–August 31)

Health service fee	$200.00
Hospital insurance premium	114.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium of the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Student Accounting Division, 7th floor, Vanderbilt Clinic, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

APPLICATION FEES AND LATE FEES

For admission	$20.00
For renewal of application for a degree	1.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

WITHDRAWAL AND ADJUSTMENT OF FEES

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he wishes to withdraw from the University. The Dean may, for a valid reason, grant a leave of absence to a student in good standing.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospitalization insurance fee, application fees, late fees, and special fees are not subject to rebate.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eight following week	25 or 50	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the

Registrar, 630 West 168th Street. In the 1976–1977 academic year, the last day to file for an October degree is August 2; for a January degree, November 5; and for a May degree, February 16. A late fee of $10 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 9 for October degrees, December 10 for January degrees, April 11 for May degrees). Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application by paying a renewal fee of $1. A $10 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above).

Requests for Transcripts

Transcripts may be requested by writing to the Office of the Registrar, 630 West 168th Street, New York, N.Y. 10032. *Official* transcripts must be sent by the University directly to an official address such as another university, a hospital, a business firm, or a government agency. However, a student may request an unofficial transcript (stamped "Student Copy"). There is a charge of $2 for each transcript requested except for those which are sent between offices of Columbia University. Checks accompanying transcript requests should be made payable to Columbia University.

Estimated Expenses

The approximate current costs for a single student attending the College during the *first academic year* are as follows:

Tuition	$4,110.00
Health and Hospital Fees	314.00
Room in Bard Hall (average cost; see under Housing, below)	1,000.00
Board at Bard Hall (under Housing, below)	850.00
Books and supplies	385.00
Microscope (rental cost)	145.00
Equipment	45.00

In addition, each student should budget approximately $1,000 for clothing, laundry, dry cleaning, recreation, and sundries, and approximately $955 for meals on weekends and holidays, when the Bard Hall dining room is closed.

There are some variations in costs for other years of the curriculum, accounted for by differences in the length of the academic year and in the student's need for books and equipment, costs of transportation to the affiliated hospitals, and food and living expenses if the student no longer resides in Bard Hall. Each year a Financial Aid Committee, composed of faculty and students, prepares a statement of estimated expenses for single and married students for each year of the medical school curriculum. These statements are available annually to all students.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Each entering student is required to provide himself with a microscope. The faculty recommends an instrument of standard make fitted with the following attachments:

Binocular body with 10x wide field high-eyepoint eyepieces with pointer; quadruple nosepiece fitted with 4 achromatic objectives of approximately 4x, 10x, 45x, and 100x oil immersion; ungraduated mechanical stage; Abbe condenser with rack and pinion focusing mount; low voltage substage illuminator with transformer attached to the microscope (110 volt illuminator also acceptable); all in carrying case.

A microscope rental service is operated by the Medical Center bookstore.

Students are required to secure the usual instruments needed for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of the year.

Financial Aid

Financial aid programs are administered without regard to race, creed, color, national origin, or sex.

The College of Physicians and Surgeons financial aid programs, which are based primarily on demonstrated need, take the form of *scholarships*, *fellowships*, and *loans*, as described below. Such funds are intended to *supplement*, rather than substitute for, the student's own resources, including those of his parents. In addition, certain *prizes* are awarded regularly (*vide infra*).

Most recipients of financial aid are given both scholarships and loans. The amount of a scholarship award depends on the total scholarship monies available and the total number of students eligible for aid.

Scholarships, fellowships, and loans are usually awarded for one academic year at a time. Fellowships may be canceled at any time for failure to maintain a satisfactory academic standard or to comply with the terms of the award.

New students who are in need of financial assistance should at their earliest opportunity complete the financial aid application sent with notices of admission to the College. No award notices should be expected before the third week in May. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694–4100.

Spouses of medical students seeking employment at the Medical Center should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital.

SCHOLARSHIPS

Students are urged to determine the availability of scholarship assistance from the states in which they reside, and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program and Regents awards to its qualified permanent residents. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state.

Among nongovernmental sources of funding, there is the National Medical Fellowships, Inc., which awards fellowships to needy Black American, American Indian, Mexican-American, and mainland Puerto Rican men and women who have been accepted by or are already attending a medical school in the United States. An applicant must be an American citizen or have filed a Declaration of Intent to become one. Awards are given primarily to first- and second-year students, but there are occasional excep-

tions. Candidates for NMF awards, if already in medical school, should apply to the NMF at 250 West 57th Street, New York, N.Y. 10019, before March 1 for second-year support. Other students should request an application form from the NMF at the time of submitting applications to medical schools. Upon acceptance by a medical school, the student should submit the completed NMF application.

There are also a number of University sources of scholarship funds. These include the following named scholarships, donated by alumni, foundations, corporations, and friends of the University:

ENDOWED SCHOLARSHIP FUNDS

Allen. Gift of Mrs. Vivian B. Allen.

Alumni. A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

Anonymous. Several; awarded annually.

Banbury. From the Banbury Scholarship Fund.

Bernheim, Alice Ida and Abraham Penner Scholarship Fund. For tuition.

Bernheim, Isaac J. and Rena Henly. Given by the family in honor of Isaac J. and Rena Henly Bernheim.

Birtwhistle, Elsie J. Founded by the will of Morell Birtwhistle in memory of his wife.

Blumenthal, George, Jr. From the George Blumenthal, Jr., Fund.

Britenstool, Dr. Harry, Memorial. From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

Brownstone, Lucien and Ethel, Merit Medical Scholarship Fund. A merit scholarship awarded every four years.

Buchman, Dr. Moses R., Memorial. Open to undergraduate medical students with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

Bull, David C., Memorial. In memory of Dr. David C. Bull, a former member of the Department of Surgery.

Butler, Richard. Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the Schools of Law or Engineering & Applied Science, or the College of Physicians and Surgeons.

Citibank Medical Scholarship. Established by the First National City Bank. The recipient must have demonstrated need for support and be a New York State resident.

Clark, Alonzo. Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

Class of 1890. Given by a member of the class.

Class of 1899. Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

Class of 1912. Given by the class on the fifteenth anniversary of its graduation.

Class of 1913. For medical student scholarships.

Class of 1920. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1924. To commemorate the fiftieth anniversary of their graduation.

Class of 1928. Given at their tenth reunion.

Class of 1932. For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1933. For a scholarship.

Class of 1934. Awarded for medical student scholarships.

Class of 1936. Given by the class on the twenty-fifth anniversary of its graduation.

Class of 1937. Awarded for tuition of medical students.

Class of 1938. Awarded annually to assist a Physicians and Surgeons student.

Class of 1939. Awarded for medical student scholarships.

Class of 1940. Awarded for medical student scholarships.

Class of 1942. Awarded for medical student scholarships.

Class of 1952. Given by members of the class on the tenth anniversary of its graduation.

Class of 1953. Given by members of the class.

Class of 1964. Established in memory of Dr. Howard Gerstel.

Cruger, Henry D. Bequest of Helen Cruger in memory of the Henry D. Cruger family.

Dana, Charles A., Foundation, Inc. Established by the Foundation.

DeAngelis, Anthony M. Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

Dennett, Horace. Open to students in the third- and fourth-year classes.

Devendorf, David M. Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

Doughty, Francis E. Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

Durante, Lawrence John. Given by members of his class, Physicians and Surgeons 1961, in his memory.

Eglee, Edward Percy. Bequest of Edward Percy Eglee, Class of 1913. Member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a Clinical Professor of Medicine.

Eichner, Joseph Herman and Hannah. Established by the will of Benjamin Bernard Eichner, Class of 1919.

Foster, Joseph C. Given by Mrs. Esther J. Foster, in memory of her husband.

Frantz, Virginia Kneeland. Bequest of Dr. Frantz.

Franz, Nellie Alden. Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

George and Charlie. Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

Goetz, Norman. Given by Mrs. Beatrice J. Goetz in honor of Dr. Frederick King, Class of 1929, in appreciation for his devoted attention to her husband, Norman Goetz.

Harsen, Jacob. Given by Dr. Jacob Harsen.

Hartley, Frank. Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

Hemingway, William H.

Himmelstein, Aaron, Memorial. Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

Hirschl, Ira T., Scholarships. From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

Huber, Charles Eugene, Sr. Bequest of Francis D. Huber in memory of his father.

Huber, Francis. Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

Huber, Viola B. Open to a graduate of Hunter College. Given by Dr. Francis Huber.

Jacobi, Abraham. For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

Jeal, Edward R. Awarded to deserving students studying under the Faculty of Medicine.

Johnson, Robert Wood, Foundation. Limited to women students, students from rural areas, and students from the Black, Indian, Mexican-American, and mainland Puerto Rican populations of the United States.

Lieb, Charles Christian. Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

Li Ming. Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

McAneny, Marjorie. Open to a graduate of Barnard College. Given by Dr. Francis Huber.

McCullough, Elizabeth Hall. Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullough, an alumna of the College of Physicians and Surgeons.

Manley, Herbert D. Given as bequest by the late Dr. Herbert D. Manley.

Markoe, Francis Hartman. Given by Madeline Shelton Markoe, in memory of her husband.

Maze, M. Montgomery. From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this Fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

Mead, Mabel C. Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

Milstein, Vivian and Seymour, Endowment for Scholarships. Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

Moritz, Samuel J., Memorial. Given by the executors of the estate of Samuel J. Moritz.

Muller, Gulli Lindh. Bequest of the donor to be awarded with preference to a gifted woman student.

P&S Scholarship Aid and Loan Fund. Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

Pfeiffer, Rudolph and Mary E. Given by Mrs. Mary E. Pfeiffer.

Presbyterian Hospital Alumni Scholarship. Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

Rappleye, Willard Cole. Established at the retirement of Dean Rappleye.

Rhodebeck, Richard. Given in memory of her husband by Mrs. Richard Rhodebeck.

Rous, David H. From family, friends, and business associates of David H. Rous, the income to be divided equally among the School of Business, Columbia College, and the College of Physicians and Surgeons.

Sagamore. Awarded to needy students.

Saphir, Joseph F., Memorial. Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

Saxe, the Mary S., Scholarship Fund. Bequest of Mary S. Saxe.

Severinghaus, Aura E. Given by faculty members, alumni, and students, in honor of Dr. Severinghaus' services to the College.

Smith, Bernard E., Memorial. Given by Mrs. Gertrude Smith, in memory of her husband.

Stevenson, the James A., Memorial Scholarship. Established by Mrs. Ann Stevenson Hardesty, in memory of her brother, James Albert Stevenson, Class of 1943.

Stewart, Edgar Eginton, Jr., Memorial. Given by Dr. E. E. Stewart, in memory of his son.

Stout, Arthur Purdy, Memorial. Given by the Arthur Purdy Stout Society.

Sturmdorf, Arnold. Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

Vaughan, Harold S. Bequest of Dr. Harold Vaughan, Class of 1904.

Vicale, Andrea, Memorial. Established in memory of his father by Dr. Carmine T. Vicale.

Vollmer, Hermann. Established in his memory by his wife.

Vosseler, Theodore L. Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

Wechsler, Robert M. Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

Whiting—Dr. Fordyce B. St. John—Scholarship Fund. Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Wilson, Dr. James Lancelot. Awarded to a student selected by the College of Physicians and Surgeons.

Zohrab, Clara and Krikor. Awarded with preference to students of Armenian extraction.

GIFT FUNDS

Delacorte, Valerie and George, Foundation. Annual gift.

General Scholarship Gift Fund. Gifts and memorials by various donors.

Iklé, Charles F., Scholarship and Research Fund. Grant by the New York Community Trust.

Lee, James T., Foundation, Inc. Annual grant to medical students.

Macy, Josiah Jr., Foundation. For student research and special study projects in the field of human reproduction.

Stolfi, Julius E., Medical Education and Research Fund Scholarship.

LOANS

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below. In all cases, the amount loaned is based on the applicant's demonstration of need for additional funds to meet educational and living expenses. Students who foresee the need to apply loan funds toward the costs of their medical education are urged to consult with the Financial Aid Officer of the College of Physicians and Surgeons well in advance of registration.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers for their loans who are citizens or permanent residents of the United States but not University employees or members of the applicant's immediate family (i.e., mother, father, siblings). Foreign students may borrow from federal or state loan funds upon being granted permanent resident status in the United States.

Federal Health Professions Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be

loaned. Assuming the availability of adequate funding, the maximum loan to a student during a nine-month academic year is $3,500. Over a twelve-month year a student may borrow as much as $4,667. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 3 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* for up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during periods of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state which has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (See "Loan Repayment or Cancellation for Professional Practice," below.) (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, insurance companies, and eligible schools. The maximum loan each academic year under this program is $2,500, and the total outstanding loan balance at any one time may not exceed $10,000. Interest may not be in excess of an annual percentage rate of 7 percent. Lending institutions participating in this program can provide further information regarding interest rates. Repayment begins nine to twelve months after the student's studies have been completed or otherwise terminated, and is scheduled for completion within five to ten years. The minimum monthly payment is $30.

Deferment of repayment is permitted for up to three years during the student's service in the military, the Peace Corps, or Volunteers in Service to America (VISTA).

Comparable loans are insured by a number of states.

Other Sources of Loans. The National Education Loan Guarantee Program of the American Medical Association Education and Research Foundation (AMA–ERF) makes possible loans to all medical students, interns, and residents in good standing who are United States citizens, provided they are enrolled in full-time training at an AMA-approved American medical school or hospital and can demonstrate financial need. Medical students must have completed their first semester in order to qualify. The maximum amount that can be borrowed in a twelve-month period (September 1 to August 31) is $1500. Up to a total of $10,000 may be borrowed over a period of seven years. The minimum loan for any one interim note is $400.

Most AMA–ERF guaranteed loans provide for interest at one percent over the prime rate at the time the loan is made and one percent additional during the payout period. Interest charges must be paid in full each year by the student. Payment of principal is deferred during the training period. Prepayment of principal may be made at any time without penalty.

University loan funds are also intended to supplement students' resources. Repayment of these loans is scheduled to begin nine months after graduation and to be completed within ten years (provided that a repayment rate of at least $30 a month is maintained). The interest charge for University loans is 3 percent a year of the outstanding loan balance.

The University has certain named loan funds from which medical students may borrow when monies are available. Included among these are the following funds:

Amazon, Peter. Bequest of Peter Amazon.

Arms, Leonard Alexander. Bequest of Lydia B. Arms in memory of her husband, to create a revolving, interest-free loan fund for scholarship and research to medical students and graduate students at P&S.

Blumenthal, George Jr. (1916). Used for the assistance of needy students in the medical school.

Class of 1906. Gifts from various members of the Class of 1906.

Class of 1919 (1944). Gifts from various members of the Class of 1919. To be used for interest-free loans to deserving students.

Gardner, Carol Elissa. Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

Greene, David (1970). A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

Hawkins, George L., Jr. Gift of George L. Hawkins, Jr., Class of 1941.

MacKenzie, Robert Abbe. Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

Merck, George W., Memorial. Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S wherever they are in training or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

Noyes, Jessie Smith.

Stein, Walter C. and Marjorie C. Bequest of Marjorie C. Stein.

Severinghaus, Aura E. Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

Steinhardt Medical Scholarship. Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in 15 years; without interest for the first ten years; with five percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Loan Repayment or Cancellation for Professional Practice. The Comprehensive Health Manpower Training Act of 1971 provides that if a physician obtained a Health Professions Student Loan or *any other educational loan* for the costs of education at a school of medicine and enters into an agreement with the Secretary of Health, Education, and Welfare to practice for a period of at least two years in an area in a state designated by the Secretary (after consultation with the appropriate state health authority) to have a shortage of, and need for, persons trained in medicine, the Secretary will repay a portion of the educational loans which are outstanding on the date a physician begins practice under the agreement, as follows: (1) Upon completion of the first year of the practice as specified in the agreement, 30 percent of the principal and interest of each such loan which is outstanding on the date the physician begins such practice will be repaid. (2) Upon completion of the second year of such practice, another 30 percent of the principal and interest of each such loan will be repaid. (3) Upon completion of a third year of such practice, an additional 25 percent of the principal and interest of each such loan will be repaid. Should the physician enter into such an agreement with the Secretary and fail to fulfill the provisions of the agreement, he or she is liable to reimburse the Secretary for any payments which have been made by the government.

PRIZES

Altman, Dr. Harry S., Prize (1973). Awarded to an outstanding student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarships in pediatrics.

Bartelstone, Herbert J., Award in Pharmacology. Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

Coakley Memorial Prize. Awarded by the Department of Otolaryngology to a student who has done outstanding work in the field.

Cock, Thomas F., M.D., Prize. Awarded to a senior student for excellence in obstetrics and gynecology.

Gay, Frederick Parker, Memorial Award (1948). Awarded to the student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay in memory of her husband.

Janeway Prize. Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Loeb, Robert F., Award (1974). Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and Chairman of the Department of Medicine from 1947–1959.

Lowenfish, F. Philip. Awarded to the individual who has done the most creative and original research in dermatology. Given in her husband's memory by Mrs. Lowenfish.

Meierhof, Dr. Harold Lee, Prize. Awarded on recommendation of the Professor of

Pathology to the student who has done the best work in the field. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

Parker, Joseph Garrison, Award. Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P & S Class of 1924, Dr. Allen O. Whipple Memorial Prize. Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

Psychiatry, Department of, Prize. Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

Ryan, Ann, Prize in Biochemistry (1973). To be awarded to deserving female graduate students.

Sciarra, Helen M., Prize. Awarded to a senior student in the College for outstanding work in neurology.

Stevelman, Dr. Harold, Award (1973). Given to a student who has shown particular interest in, and dedication to, community health. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

Urology Prizes. Awarded to undergraduate students who submit the best essays on urological subjects during the school year.

Watson, Dr. William Perry, Prize in Pediatrics (1921). Awarded on the nomination of the Professor of Pediatrics to that member of the graduating class of the College who has been in attendance in the regular course of instruction for at least two years and has shown the most notable work in the study of the diseases of infants and children.

Watson, Dr. William Rayner, Award. Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

Winchester, Walter, Prize. Awarded to the senior in the College who, in the opinion of the Faculty, has the potential for exemplifying the humanitarian spirit in the art and practice of medicine, as lived by the late Dr. Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

Housing

Room rates at Bard Hall depend on the length of the academic year; thus, first-year students pay $1,000, on the average, for a forty-week contract, and third-year students, $1,200, on the average, for a fifty-two-week contract. First- and second-year medical student residents subscribe to a five-day-a-week, fifteen-meal, prepaid board plan. The present rate is $850 for the first academic year, excluding the winter and spring holiday periods. The current rate for second-year students is $650, excluding approximately the last three months. In case of marked increase in operating costs, all rates are subject to

change. Room application blanks and further information concerning rates are provided to entering students by the Admissions Office. For further information, write to the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Towers on the Medical Center campus. For information, please write to the Office of University Housing, 400 West 119th Street, New York, N.Y. 10027.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries, the Placement Office, and the various student activities.

P&S CLUB

The P&S Club, founded some eighty years ago by James R. Mott, who later won the Nobel Peace Prize, has a rich tradition of service to students and others. In 1917 the Club raised money for the purchase of a steam launch. Two Club members delivered this vessel to Sir William Grenfell, the famed Labrador physician. The boat was used to bring medical services to Eskimo and Indian fishermen on isolated islands along the Labrador coast. In subsequent summers P&S seniors continued to participate in this project.

In the 1950s and 1960s the Club collected textbooks for foreign medical schools. The MERCY Project, initiated in 1969, brought medical aid to more than a thousand children flown from the Biafran-Nigerian war zone.

Every matriculated student of the College of Physicians and Surgeons is, *ipso facto*, a member of the P&S Club and is invited to participate in the activities of his choice. Under the guidance of the Club's Faculty Board of Advisers, students assume full responsibility for managing its affairs. The student cabinet, the Club's governing body, includes one elected member from each class and project chairmen who organize such activities as Orientation Week, Community Youth Work, plays, an arts festival, social get-togethers, movies, the Medical History Society, athletics, and visits to the homes of faculty members. In recent years the Club has also sponsored conferences on such subjects as medicine and religion and medicine and law.

THE ALPHA OMEGA ALPHA HONOR MEDICAL SOCIETY

The Alpha Omega Alpha honorary fraternity is a medical honor society, membership in which is based on scholarship and character. A chapter was first organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

All graduates of the College of Physicians and Surgeons are *ipso facto* members of the Alumni Association of the College. The office of the Alumni Association is located at 630 West 168th Street, New York, N.Y. 10032.

THE PROGRAM OF INSTRUCTION

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses, with correlation clinics to help relate basic science material to medical problems. After the summer vacation, basic science courses are continued in the second year, with the addition of interdepartmental courses in abnormal human biology, which relates clinical material to the basic sciences, and introduction to the patient, which introduces history taking and the physical examination.

The major clinical year is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary education aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms by which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final year is devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals, and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Research Opportunities

The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during their elective year, or may arrange a full year on their original investigation rather than proceed with the next regularly assigned academic year.

Grades and Promotion

Students are evaluated in terms of comments regarding their performance and professional attitudes. Official records indicate whether they have passed with honors, passed, or failed. Students are not ranked within their class.

A student may be advanced to the next academic year of the medical course or be

allowed to repeat a year only upon the recommendation of the faculty members under whom he studied during the previous year. Students are classified under the following headings: (1) recommended for advancement; (2) recommended for readmission to the same class. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to the first and second years respectively.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

Summary of Curriculum

FIRST-YEAR CLASS, 1976

SEPTEMBER 6, 1976, to JANUARY 14, 1977. First semester basic science courses and correlation clinics.

JANUARY 17, 1977, to JUNE 10, 1977. Second semester basic science courses and correlation clinics.

SECOND THROUGH FOURTH YEARS

SEPTEMBER, 1977, to APRIL, 1978. Introductory clinical and basic science courses.

APRIL, 1978, through APRIL, 1979. Clinical clerkships.

MAY, 1979, through APRIL, 1980. Electives.

Basic Science and Introductory Clinical Courses

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiopulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastrointestinal, Dr. Morris; Hematology, Dr. Rifkind; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Weinstein; Renal Diseases, Dr. Taggart; Surgery, Dr. Lo Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar with supporting lectures and is closely integrated with the courses in pharmacology and with *Medicine 102S—Introduction to the patient.*

Anatomy 101F. Microscopic anatomy
The departmental staff.

Anatomy 102F. Human anatomy
The departmental staff.

Biochemistry 101F. Introductory biochemistry
The departmental staff.

Embryology 101F.
Anatomy departmental staff.

Genetics 101S.
Dr. Krooth and associates.

Human Growth, Development, and Nutrition 101S.
Dr. Brasel and associates.

Medicine 101F. Correlation clinics
Drs. Frantz and Jaretzki.
Series of clinics illustrating the application of basic science to the understanding of disease mechanisms.

Medicine 102S. Introduction to the patient
Dr. Aranow and associates.
Includes physical diagnosis as well as patient approach.

Microbiology 101F. Bacterial and mammalian cells
The departmental staff.

Microbiology 102S. Pathogenic organisms
The departmental staff.

Neural Science 101S.
Drs. Kandel, Kelly, Kupfermann, Noback, Rowland, Schwartz, and Spencer.

Pathology 101F. General and special pathology
Dr. King and the departmental staff.

Pathology 102S. Neuropathology
Dr. Duffy.

Pharmacology 101S. General and special pharmacology
The departmental staff.

Physician-Patient Relationship 101F.
Drs. Hembree and Rosenberg.

Physiology 101F. Human physiology
The departmental staff.

Psychiatry 101FS. Human behavior
Dr. Altshuler and the departmental faculty.

Public Health 101S. Parasitic diseases
Dr. Katz and staff.
Human diseases caused by the protozoa, helminths, and arthropods.

Public Health 102F. Epidemiology
Dr. Susser and staff.

Major Clinical Year

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Bendixen and staff.

Dermatology 201. Dermatology and syphilology
Drs. Harber, Sanders, Young, and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Morris and staff.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at either Harlem, Roosevelt, or St. Luke's Hospital, to develop the basic skills of history taking, physical examination, and interpretation of laboratory data into an integrated approach to clinical medicine.

Neurology 201. Ward clinical clerkship in neurology
Dr. Rowland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
Dr. Housepian and staff.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
The departmental staff. At Vanderbilt Clinic and the Eye Institute.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
The departmental staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat
The departmental staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship
Dr. Katz and staff.
Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry
Drs. Altshuler and Yudofsky, and the clinical faculty. At New York State Psychiatric Institute, Presbyterian, Harlem, Roosevelt, and St. Luke's Hospitals.

Public Health 201. Clerkship in public health and community medicine
The departmental staff.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201
Dr. Downey and staff.

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff.

Surgery 202. Lectures and demonstrations in surgical pathology
Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology
Dr. Lattimer and staff.

Electives (12 Months)

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science-clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; in-

volvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, infectious diseases, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth-year students, who take part in the activities in university or government health centers in Central and South America, Africa, or Asia.

Summary of Studies (in Hours)

BASIC SCIENCE

	HOURS		HOURS
Abnormal Human Biology 101S	244	Neural Science 101S	89
Anatomy 101F	96	Pathology 101F	161
Anatomy 102F	146	Pathology 102S	21
Biochemistry 101F	115	Pharmacology 101S	106
Embryology 101F	12	Physician–Patient Relationship 101F	33
Genetics 101S	16	Physiology 101F	118
Human Growth, Development, and Nutrition 101S	24	Psychiatry 101FS	102
Medicine 101F	9	Public Health 101S	36
Medicine 102S	141	Public Health 102F	15
Microbiology 101F	102		
Microbiology 102S	40	TOTAL	1,626

MAJOR CLINICAL YEAR

	HOURS		HOURS
Anesthesiology 201	64	Psychiatry 201	130
Dermatology 201	17	Public Health 201	62
Medicine 201	384	Radiology 201	11
Neurology 201-202	192	Radiology 202	11
Obstetrics and Gynecology 201	192	Rehabilitation Medicine 201	10
Ophthalmology 201	18	Surgery 201	156
Orthopedic Surgery 201	64	Surgery 202	36
Otolaryngology 201	18	Urology 201	64
Pediatrics 201	192	TOTAL	1,621

Special Programs

M.D.–PH.D. PROGRAM

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and the Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain a Ph.D. degree in one of the fourteen participating disciplines in the program. At

least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program.

Applicants interested in the M.D.–Ph.D. program should write for further information and application forms to:

Dr. Lowell M. Greenbaum
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Pharmacology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

RESEARCH IN RESIDENCE

A graduate student who wishes to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for research in residence (see the schedule of fees).

PROGRAMS IN PHYSICIAL THERAPY AND OCCUPATIONAL THERAPY

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a baccalaureate degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to a Master of Science degree in occupational therapy. Details are given in the University bulletin, *Programs in Physical Therapy and Occupational Therapy*.

PROGRAM OF THE PSYCHOANALYTIC CLINIC

A course of training in the theory and practice of psychoanalytic medicine is offered through the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Psychoanalytic Clinic.

PROGRAMS IN NUTRITION

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology,

and preferably a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program Subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or its equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director of the Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

PROGRAM IN CLINICAL GENETICS

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Committee on Clinical Genetic Services, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this Committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics, sponsored and directed by the Committee, offers clinical fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Committee on Clinical Genetic Services, Department of Human Genetics and Development, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

PROGRAM IN BIOPHYSICS AND BIOPHYSICAL CHEMISTRY

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

University Program of General Education

The Program of General Education offers a series of courses designed to bring together various scholarly and professional disciplines to explore matters of lasting human concern and distinct contemporary importance. The Program includes both experimental and time-tested forms of general education. As an outgrowth of Columbia's long experience in this area, the Program is based on the premise that general education can parallel disciplinary training in the graduate as well as undergraduate years. The Program offers intermediate and advanced courses that supplement such general introductions as Contemporary Civilization, Humanities A and B, Oriental Civilizations, and Oriental Humanities.

The Program's courses and seminars are addressed to both the non-specialist and the specialist who is willing to venture beyond the conventional disciplinary boundaries. Within the normal limits of appropriate class size, and depending upon the level of the course, most courses are open to qualified students from all divisions of the University. Students should check with their department or school if there are questions about receiving credit toward a major or a degree.

A complete listing of courses offered under the Program will be published as a supplement to this bulletin in the late summer of 1976. It will include courses not otherwise announced in the bulletins of the University. For information, contact the General Education Program, 1513 International Affairs Building, Columbia University, New York, N.Y. 10027. Telephone: (212) 280-2208.

During the 1976–1977 academic year, the Health Sciences Division of the University will conduct a General Education Seminar on the interdisciplinary analysis and explication of value issues in health sciences education, research, and service as related to behavior modification, neonatology, reproductive medicine, and survival and dying. Seminars in each of these topics meet in the autumn and spring terms, and are open to students from any division of the University with permission of a faculty participant. For information, call the course director, Bernard Schoenberg, M.D. (694–4194), or the General Education Program, Dr. Carl Burton (280–2208).

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund*, established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund*, given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement Exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize*, the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother, and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the alumnus of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be most meritorious.

THE POSTGRADUATE PROGRAM

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

GRADUATE TRAINING OF SPECIALISTS

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes three major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience through advanced training in those medical sciences that are largely concerned with his specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn him a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

PROGRAM FOR THE DOCTOR OF MEDICAL SCIENCE DEGREE

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

POSTGRADUATE COURSES FOR PRACTICING PHYSICIANS AND SPECIALISTS

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and the affiliated hospitals. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities for him to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

DEPARTMENTS OF INSTRUCTION

ANATOMY

PROFESSOR AND CHAIRMAN

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

PROFESSORS

Malcolm B. Carpenter. *B.A., Columbia, 1943; M.D., Long Island, 1947*
Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*
Sid Gilman (Merritt Professor). *B.A., California (Los Angeles), 1954; M.D., 1957*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
Virginia Tennyson (see Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

ASSOCIATE PROFESSORS

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Joe G. Hollyfield (in Ophthalmology). *B.A., Hendrix, 1960; M.S., Louisiana State, 1963; Ph.D., Texas, 1966*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Karl H. Pfenninger. *M.D., Zurich, 1971*

ADJUNCT ASSOCIATE PROFESSOR

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Kansas, 1956*

ASSISTANT PROFESSORS

Paul S. Blum. *B.A., Vermont, 1969; Ph.D., 1973*
Ray C. Henrikson. *B.Sc., Massachusetts, 1959; M.Sc., Brown, 1961; Ph.D., Boston, 1966*
James P. Kelly. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Mary M. L. Lee. *B.A., Hunter, 1963; M.S., Michigan, 1964; Ph.D., Columbia, 1972*
Daniel M. Linkie. *B.S., State University of New York (Downstate), 1962; M.S., State University of New York (Albany), 1963; Ph.D., Michigan, 1971*
Gerard P. Pereira. *B.Sc., Columbia, 1961; M.Sc., McGill, 1965; Ph.D., 1968*
John J. Rasweiler IV. *B.A., Colgate, 1965; Ph.D., Cornell, 1970*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*

ADJUNCT ASSISTANT PROFESSORS

Marie D. Felix. *B.S., American, 1956; M.S., Cornell, 1961; Ph.D., 1962*
Shih-Chang Shen. *B.S., Yenching, 1933; Ph.D., Cambridge, 1939*

ASSOCIATE
Ajit S. Dhawan

STAFF ASSOCIATE
Cheryl F. Dreyfus

RESEARCH ASSOCIATE
Taube Pearl Rothman

SPECIAL LECTURER
Frederic J. Agate, Jr.

ANESTHESIOLOGY

PROFESSOR AND CHAIRMAN

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

PROFESSORS

Mieczyslaw Finster. *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (see Pharmacology). *M.B., National Central (Nanking), 1944*
Herbert Rackow. *B.S., Pennsylvania State, 1939; M.D., Howard, 1946*

PROFESSOR OF PEDIATRICS

L. Stanley James (see Obstetrics and Gynecology). *M.D., Otago (New Zealand), 1948*

PROFESSORS OF CLINICAL ANESTHESIOLOGY

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Jacob S. Israel. *B.A., Columbia, 1945; M.D., New York University, 1949*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

ADJUNCT PROFESSOR OF ANESTHESIOLOGY

Sidney Spector (see Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

ASSOCIATE PROFESSORS

Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Allen I. Hyman (see Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

ASSOCIATE PROFESSOR OF CLINICAL ANESTHESIOLOGY

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

ASSISTANT PROFESSORS

Paul F. Hoar. *B.A., Merrimack, 1964; Ph.D., Vermont, 1970; M.D., 1971*
Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Norman M. Mazza. *B.E.E., Rensselaer Polytechnic Institute, 1962; M.D., New York Medical College, 1972*
Leila M. Pang. *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
Daniel M. Pino. *M.D., New York University, 1942*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Jen-Tien Wung. *M.D., Taipei Medical College, 1966*

ASSISTANT PROFESSORS OF CLINICAL ANESTHESIOLOGY

Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Kathryn A. W. Cozine. *M.D., Johns Hopkins, 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
Patricia Wolcott Hartwell. *B.A., Northwestern, 1967; M.D., Columbia, 1971*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
Arnold St. Jacques Lee. *B.A., Temple, 1947*
Marlise A. Ogilvie-Meier. *B.S., Lausanne, 1963; M.D., Zurich, 1969*
Rey O. Villanueva. *B.S., University of the East (Manila), 1965; M.D., 1970*
Anthony E. Wicks. *M.B., B.S., Ceylon, 1961; M.D., 1966*
Joseph C-S. Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY
Hoshang J. Khambatta
Raymond B. Laravuso
Krishan Malik

RESEARCH ASSOCIATES
Salha S. Daniel
Mariagnes Verosky
Yvonne Vulliemoz

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Gerald L. Feinberg
Ernst Heilbrunn
Saidel Lane

At Mary Imogene Bassett Hospital

ASSISTANT CLINICAL PROFESSORS

Robert Forest Bedford. *B.A., Princeton, 1964; M.D., Cornell, 1968*
William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

At Harlem Hospital

ASSOCIATE PROFESSOR OF CLINICAL ANESTHESIOLOGY

Herbert G. Cave. *M.D., Howard, 1947*

ASSISTANT PROFESSORS OF CLINICAL ANESTHESIOLOGY

Elmer S. Foster. *B.S., College of the City of New York, 1952; M.D., Brussels, 1959*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Stephanie Shich. *M.D., University of Josef Pilsudski, 1937*
Madisetti Swamy. *M.B., B.S., Osmania (India), 1954*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

ASSISTANT CLINICAL PROFESSORS

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Jean B. M. Gilot
Jacques Jean-Francois
J. Sinclair Trimiar

At Overlook Hospital

ASSISTANT CLINICAL PROFESSOR

Mary Louise White. *B.S., Maryland, 1943; M.D., 1945*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Sami A. M. Abadir
Jane deV. Stark
Carol E. Zimmerman

At Roosevelt Hospital

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY

Marcella Monica Willock. *B.A., New Rochelle, 1958; M.D., Howard, 1963*

ASSISTANT CLINICAL PROFESSORS

Ronald A. Andree. *B.A., Miami (Ohio), 1955; M.D., Case Western Reserve, 1959*
Richard Keenan. *M.D., Creighton, 1957*

ASSOCIATE IN CLINICAL ANESTHESIOLOGY
Guglielmo Bettini

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Leon Guillermo
Han Chiang Lee

INSTRUCTORS (*continued*)
Ignacia U. Ngo
William M. Smith

At St. Luke's Hospital

ASSOCIATE PROFESSOR

Louis S. Blancato. *M.D., New York Medical College, 1945*

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY

Ennio Gallozzi. *M.D., Rome, 1953*
Joseph Iacovelli. *B.A., Buffalo, 1952; M.D., Bologna, 1958*

ASSISTANT CLINICAL PROFESSORS

Errol N. Harding. *B.A., M.D., C.M., McGill, 1949*
Aino Tuul. *M.D., Tartu (Estonia), 1942*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY
Hilda H. C. Liu

ASSOCIATES (*continued*)
Alfred T. C. Peng
Altagracia H. Polanco

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Zoan J. Korduba
Julio M. G. Rodriguez

BIOCHEMISTRY

PROFESSOR AND ACTING CHAIRMAN

Parithychery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

PROFESSORS

Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941; Ph.D., Duke, 1950*
Philip Feigelson. *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*
Seymour Lieberman (in Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*

Barbara W. Low (Biochemical Crystallography). *B.A., Oxford, 1942; M.A., 1946; D.Phil., 1948*
Maurice M. Rapport (in Psychiatry). *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*
David B. Sprinson (American Heart Association Professor). *B.A., College of the City of New York, 1931; M.S., New York University, 1936; Ph.D., Columbia, 1946*

ADJUNCT PROFESSOR

P. Roy Vagelos. *M.D., Columbia, 1954*

ASSOCIATE PROFESSORS

Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*
Dezider Grunberger (Institute of Cancer Research). *M.Sc., Technical University (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*

SENIOR RESEARCH ASSOCIATE

David Elwyn (in Surgery). *B.A., Columbia, 1941; Ph.D., 1950*

ASSISTANT PROFESSORS

George Alexander (in Psychiatry). *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Irving Goodman (in Surgery). *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*
Ronald L. Hanson. *B.A., Minnesota, 1965; Ph.D., Wisconsin, 1970*
Herbert L. Meltzer (in Psychiatry). *B.S., Long Island, 1942; Ph.D., Columbia, 1950*
Terrone L. Rosenberry (in Neurology). *B.A., Oberlin, 1965; Ph.D., Oregon, 1969*
Lawrence E. Skogerson. *B.A., Grinnell, 1964; Ph.D., Pittsburgh, 1968*
Benjamin Weiss (in Psychiatry). *B.S., Iowa, 1944; Ph.D., Illinois, 1949*

ADJUNCT ASSISTANT PROFESSORS

Liese L. Abell (in Medicine). *Ph.D., Frankfurt, 1935*
Edith G. Gollub. *B.S., Philadelphia College of Pharmacy and Science, 1945; M.S., Pennsylvania, 1956; Ph.D., 1961*
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ASSISTANT CLINICAL PROFESSORS

Antonio Cocchiarella. *M.D., Bari (Italy), 1953*
Damyanti G. Moorjani (see Pediatrics). *B.S., Bombay, 1953; M.D., Grant (Bombay), 1957*

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE
Alfred Hess
Danuta Janiszewski
Vivienne Katz
I. Antoinette Sutherland

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Occupational Therapy

PROFESSOR

Marie Louise Franciscus, *director of program. O.T.R., Philadelphia School of Occupational Therapy, 1937; B.S., Ohio State, 1947; M.A., Columbia, 1956*

ASSISTANT PROFESSORS

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ASSISTANT CLINICAL PROFESSOR

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ASSOCIATES IN CLINICAL OCCUPATIONAL THERAPY
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Eleanor V. Shelly

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A. Gloria Goldberg Hershman
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Alice R. Trei

Physical Therapy

PROFESSOR

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ASSOCIATE PROFESSORS

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Althea M. Jones. *B.S., Panzer College of Physical Education, 1944; M.A., Columbia, 1972*

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Theodore Corbitt

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY
Margaret Beyda
Carroll Anne Catherine Grece
Judith R. Hogan
Marilyn Lister

INSTRUCTORS *(continued)*
Joseph A. Malloy (at Harlem Hospital)
Marion Marx
Georgia Nesbit Riedel
Patricia Sullivan

At Blythedale Children's Hospital

ASSOCIATE IN CLINICAL REHABILITATION MEDICINE
Robert Stone

At Harlem Hospital

PROFESSOR OF CLINICAL REHABILITATION MEDICINE

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ASSOCIATE PROFESSOR OF CLINICAL REHABILITATION MEDICINE

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Claire Schiller. *M.B., Witwatersrand (South Africa), 1955*

ASSISTANT CLINICAL PROFESSOR

Roy H. Brown. *B.S., Fordham, 1949; M.D., Zurich, 1955*

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE
Wanda Brodzka
Cecelia Macauley
Louise Weiss

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Margaret F. Brown

INSTRUCTOR IN CLINICAL PHYSICAL THERAPY
Joseph A. Malloy

At Helen Hayes Hospital

ASSISTANT CLINICAL PROFESSOR

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ASSOCIATE CLINICAL PROFESSOR

Shyh-Jong Yue. *M.D., National College of Medicine (Shanghai), 1938*

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Lucille T. Pai. *M.D., Woman's Christian Medical College (Shanghai), 1941*

INSTRUCTOR IN CLINICAL
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Ravi Raj Malpe

SURGERY

VALENTINE MOTT PROFESSOR AND JOHNSON & JOHNSON DISTINGUISHED PROFESSOR AND CHAIRMAN

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

At Presbyterian Hospital

PROFESSORS

Jose M. Ferrer. *B.A., Princeton, 1934; M.D., Columbia, 1938*
Frank Gump. *B.A., Harvard, 1951; M.D., New York University, 1955*
David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*
Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
Robert B. Hiatt. *B.S., Wilmington, 1938; M.D., Cincinnati, 1942*

Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
John B. Price, Jr. *M.A., Texas, 1948; M.D., Johns Hopkins, 1950*
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Charles L. Fox, Jr. *B.A., Harvard, 1929; M.D., Long Island, 1934*

PROFESSORS OF SURGICAL PATHOLOGY

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Raffaele Lattes. *M.D., Turin, 1933; Med.Sc.D., Columbia, 1946*

PROFESSORS OF CLINICAL SURGERY

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George F. Crikelair. *B.A., Wisconsin, 1941; M.D., 1944*
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ASSOCIATE PROFESSOR OF MICROBIOLOGY

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Joseph A. Buda. *B.A., Columbia, 1951; M.D., Cornell, 1955*
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Carl R. Feind. *B.A., Texas, 1940; M.D., Columbia, 1950*
Alfred M. Markowitz. *B.A., New York University, 1948; M.D., Washington (St. Louis), 1952*
Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*
Francis C. Symonds. *B.A., Princeton, 1947; M.D., Columbia, 1951*
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ASSOCIATE CLINICAL PROFESSORS

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Charles W. Findlay. *B.A., Yale, 1939; M.D., Columbia, 1943*
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Barnett Miller
H. Carl Moultrie II
James E. C. Norris
Max Yergan, Jr.

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Douglas M. Costabile
Victor D'Ambrosio
John Joseph Hudock
Frank E. Kaiser
Robert E. Knapp
Daniel L. Moore
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Lester Silver
Jerome Spivack
John V. Triolo
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Charles C. Harrold, Jr. *B.S., Georgia, 1937; M.D., Harvard, 1941*
Adrian Lambert, Jr. *B.A., Yale, 1930; M.D., Columbia, 1934*
J. William Littler. *M.D., Duke, 1942*
Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Thomas S. Royster. *B.A., North Carolina, 1940; M.D., Pennsylvania, 1943*

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John T. Brennan, Jr. *M.D., Harvard, 1950*
David M. Carberry. *Ph.B., Providence, 1947; M.D., Jefferson, 1951*
Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
William V. Healey, Jr. *B.A., Princeton, 1952; M.D., Columbia, 1956*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
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PROFESSORS OF SURGERY

Hugh F. Fitzpatrick. *B.S., Creighton, 1942; M.D., 1943*
James Clarence Pierce. *B.A., Carleton, 1951; M.D., Harvard, 1955*

PROFESSOR OF CLINICAL SURGERY

Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*

CLINICAL PROFESSOR

John P. West. *B.S., Alabama Polytechnic Institute, 1927; M.D., Cornell, 1932*

ASSOCIATE PROFESSOR OF MICROBIOLOGY

George A. Hashim. *Ph.D., Columbia, 1967*

ASSOCIATE CLINICAL PROFESSORS

George E. Green. *B.S., Yale, 1952; M.D., 1956*
W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*
Robert E. McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

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Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*

Robert T. Fraser. *B.A., Dartmouth, 1931; M.D., Columbia, 1934*
Conrad G. Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*

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Peter B. Cinelli
Clayton R. De Haan
Philip E. Gordon

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UROLOGY

PROFESSOR AND CHAIRMAN

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PROFESSOR OF CLINICAL UROLOGY

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Aurelio Uson. *M.D., Barcelona (Spain), 1950*

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Phillip Tomashefsky. *Ph.D., New York University, 1969*

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Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*
Arthur M. Smith. *B.A., Cornell, 1959; M.D., Maryland, 1963*

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J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*

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Stanford Pulrang

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Robert Granato

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Erol O. Gursel
Leonard J. Rudin
Robert R. White

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Luis Marte Abreu
John C. Byrne
Richard Fadil

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Maguid R. Megalli
Robert L. Pickens

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ASSOCIATE CLINICAL PROFESSOR

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ASSISTANT CLINICAL PROFESSORS

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert S. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

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ASSOCIATE CLINICAL PROFESSOR

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ASSISTANT PROFESSOR OF CLINICAL UROLOGY

Manuel Fernandes. *M.D., Coimbra (Portugal), 1956*

ASSISTANT CLINICAL PROFESSOR

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

INSTRUCTORS IN CLINICAL UROLOGY

Alfred F. Fretz
Waleed G. Maloof
Constantine Photos

INSTRUCTORS *(continued)*

Joseph D. Putignano
Rudolph D. Talarico
Pellegrino J. Tozzo

ASSISTANT IN CLINICAL UROLOGY

Arumbi P. Subramaniam

FIRST-YEAR POSTGRADUATE APPOINTMENTS: CLASS OF 1976

Almas, James P.
Los Angeles County–U.S.C. Medical Center, Los Angeles, Calif. *Pathology*
Azzi, Raymond L.
Stanford University Affiliated Hospitals, Stanford, Calif. *Pathology*
Barbera, Lisa G. *Norwalk Hospital, Norwalk, Conn.* *Medicine*
Baredes, Soly. *St. Luke's Hospital, New York, N.Y.* *Surgery*
Barnett, Arthur S. *Dartmouth Affiliated Hospitals, Hanover, N.H.* *Surgery*
Binkert, Barbara L. *St. Vincent's Hospital, New York, N.Y.* *Flexible*
Bowe, John A.
University of Virginia Affiliated Hospitals, Charlottesville, Va. *Surgery*
Breaux, Barry E.
Martin Luther King, Jr. General Hospital, Los Angeles, Calif. *Medicine*
Bronzo, Richard L. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Brown, Larry K. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* *Medicine*
Burke, Allan M. *The New York Hospital, New York, N.Y.* *Medicine*
Calabrese, Dorothy V. *Overlook Hospital, Summit, N.J.* *Pediatrics*
Carr, Daniel B. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Casals-Ariet, Christina B. *Harlem Hospital Center, New York, N.Y.* *Medicine*
Castellano, Thomas J. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Cerny, Kenneth R. *Barnes Hospital Group, St. Louis, Mo.* *Medicine*
Chaiken, Barry G. *Roosevelt Hospital, New York, N.Y.* *Medicine*
Chan, Florence Y. *Duke University Medical Center, Durham, N.C.* *Surgery*
Charity, Cynthia McC.
Medical College of Virginia Hospitals, Richmond, Va. *Pediatrics*
Chernock, David M. *Dartmouth Affiliated Hospitals, Hanover, N.H.* *Medicine*
Chin, Jean M. *Mount Sinai Hospital, New York, N.Y.* *Obstetrics and Gynecology*
Chyun, Yong-Sung. *New England Deaconess Hospital, Boston, Mass.* *Medicine*
Clark, Mary H. *University Hospitals, Madison, Wis.* *Pediatrics*
Clark, Michelle O.
Martin Luther King, Jr. General Hospital, Los Angeles, Calif. *Psychiatry*
Cohen, Ronald S. *University of California Hospitals, San Francisco, Calif.* *Pediatrics*
Cohn, Kenneth H. *New England Deaconess Hospital, Boston, Mass.* *Surgery*
Daniels, Robert L. *Presbyterian Hospital, New York, N.Y.* *Obstetrics & Gynecology*
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Drimmer, Eric J. *St. Vincent's Hospital, New York, N.Y.* *Flexible*
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Flowers, Cornelius. *Grady Memorial Hospital, Atlanta, Ga.* *Medicine*
Forster, Susan H. *Presbyterian Hospital, New York, N.Y.* *Surgery*
Fox, Ira J. *Presbyterian Hospital, New York, N.Y.* *Surgery*
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Hammill, Hunter. A. *Montefiore Hospital, Pittsburgh, Pa.* *Medicine*
Harbison, Madeleine. *Johns Hopkins Hospital, Baltimore, Md.* *Pediatrics*
Ho-Kung, Esther. *Harlem Hospital Center, New York, N.Y.* *Medicine*
Hoppock, John S. *Good Samaritan Hospital, Portland, Oreg.* *Ophthalmology*
Hurwitz, Shepard R.
University of Virginia Affiliated Hospitals, Charlottesville, Va. *Surgery*
Ilson, Joyce. *Mayo Graduate School of Medicine, Rochester, Minn.* *Medicine*
Israel, Andrew G. *San Diego County–University Hospital, San Diego, Calif.* *Medicine*
Jacob, Matteethra C. *Baylor College Affiliated Hospitals, Houston, Tex.* *Medicine*
Jaffe, Judith L. *Roosevelt Hospital, New York, N.Y.* *Pediatrics*
Jimenez, Luis. *Roosevelt Hospital, New York, N.Y.* *Pediatrics*
Jinadu, Babatunde A. *Baylor College Affiliated Hospitals, Houston, Tex.* *Pediatrics*
Johnston, Charles E.
University of Texas–San Antonio Teaching Hospitals, San Antonio, Tex.
Orthopedic Surgery
Kalmanowitz, Stuart M.
Cedars-Sinai Medical Center, Los Angeles, Calif. *Obstetrics & Gynecology*
Karp, George I. *University of Chicago Hospitals and Clinics, Chicago, Ill.* *Medicine*
Kaunitz, Jonathan D. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Kinaszczuk, Thomas.
University of Florida Affiliated Hospitals, Gainesville, Fla. *Ophthalmology*
Kleaveland, Joseph P. *Presbyterian Hospital, New York, N.Y.* *Medicine*

Koster, Beth E. *Overlook Hospital, Summit, N.J.* *Flexible*
Kremberg, Marvin R. *St. Luke's Hospital, New York, N.Y.* *Psychiatry*
Kuchera, James J. *Presbyterian Hospital, New York, N.Y.* *Obstetrics & Gynecology*
Lawrence, Pamela A.
New York University Medical Center, New York, N.Y. *Medicine*
Leder, Mary E. *Children's Hospital of D.C., Washington, D.C.* *Pediatrics*
Lefkowitch, Jay H. *Presbyterian Hospital, New York, N.Y.* *Pathology*
Leiter, Bruce E. *Roger Williams General Hospital, Providence, R.I.* *Medicine*
Lopyan, Stanley A. *The New York Hospital, New York, N.Y.* *Otolaryngology*
Lowe, Barbara R. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Luber, M. Philip. *Mount Zion Hospital, San Francisco, Calif.* *Medicine*
McDonald, Marguerite B. *Lenox Hill Hospital, New York, N.Y.* *Medicine*
McGuire, Stephen A.
Wilford Hall USAF Medical Center, Lackland Air Force Base, Tex. *Medicine*
McNally James W. *New England Medical Center, Boston, Mass.* *Medicine*
Mandelblatt, Jeanne S. *Montefiore Hospital Center, Bronx, N.Y.* *Family Practice*
Marcal, Jose M. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Marshall, Harry J.
Yale–New Haven Medical Center, New Haven, Conn. *Pediatrics*
Mendoza, Francis X. *Roosevelt Hospital, New York, N.Y.* *Surgery*
Merrell, Woodson C. *Roosevelt Hospital, New York, N.Y.* *Medicine (Primary Care)*
Meyers, Robert A. *Roosevelt Hospital, New York, N.Y.* *Medicine*
Mitchell, William A. *St. Luke's Hospital, New York, N.Y.* *Surgery*
Miura, Dennis S. *Stanford University Affiliated Hospitals, Stanford, Calif.* *Medicine*
Mixter, Roger C. *Mayo Graduate School of Medicine, Rochester, Minn.* *Surgery*
Mount, Philip M. *Presbyterian Hospital, New York, N.Y.* *Pathology*
Nieves, Walter L. *Beth Israel Hospital, New York, N.Y.* *Medicine*
Nolan, Brian T. *Presbyterian Hospital, New York, N.Y.* *Surgery*
Ogilvie, Orin H. *Brooke Army Medical Center, Ft. Sam Houston, Tex.* *Flexible*
Osborn, Emilie H. S. *Montefiore Hospital Center, Bronx, N.Y.* *Family Practice*
Ostrer, Harry. *Johns Hopkins Hospital, Baltimore, Md.* *Pediatrics*
Packer, Andrew J. *The New York Hospital, New York, N.Y.* *Medicine*
Padron, Sebastian T.
University of Texas–San Antonio Teaching Hospitals, San Antonio, Tex. *Medicine*
Parris, Oneall E. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Phillips, Malcolm C. *The New York Hospital, New York, N.Y.* *Medicine*
Ratner, Clifford M. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Romagnoli, Mario F. *Presbyterian Hospital, New York, N.Y.* *Medicine*
Rosenfeld, Jonathan. *Roosevelt Hospital, New York, N.Y.* *Medicine*
Rosenthal, Stephen M. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Rosenwasser, Melvin P. *Roosevelt Hospital, New York, N.Y.* *Surgery*
Rosner, Saran S. *Johns Hopkins Hospital, Baltimore, Md.* *Surgery*
Rubin, Harvey. *Peter Bent Brigham Hospital, Boston, Mass.* *Medicine*
Ruderman, Marvin I. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Ruestow, Paul C. *Michael Reese Hospital, Chicago, Ill.* *Medicine*
Sanchez, Guillermo R.
Hospitals of the University Health Center, Pittsburgh, Pa. *Pediatrics*
Schechter, Clyde B. *St. Luke's Hospital, New York, N.Y.* *Medicine*
Schiffman, Robert L. *Beth Israel Hospital, Boston, Mass.* *Medicine*
Schneider, Harry D.
McGaw Medical Center of Northwestern University, Chicago, Ill. *Otolaryngology*

Schneider, Louisa B.
McGaw Medical Center of Northwestern University, Chicago, Ill. *Obstetrics & Gynecology*
Schnur, Michael J. *Overlook Hospital, Summit, N.J.* *Flexible*
Schoen, Robert T.
Yale–New Haven Medical Center, New Haven, Conn. *Medicine*
Schultz, Robert W. *Strong Memorial Hospital, Rochester, N.Y.* *Medicine*
Shoji, Elaine C.
Children's Hospital Medical Center of Northern California, Oakland, Calif. *Pediatrics*
Silverman, David A. *New York University Medical Center, New York, N.Y.* *Medicine*
Steinberger, Alfred A. *Montefiore Hospital Center, Bronx, N.Y.* *Surgery*
Sternschein, Michael J. *Presbyterian Hospital, New York, N.Y.* *Surgery*
Stuchin, Steven A. *Roosevelt Hospital, New York, N.Y.* *Surgery*
Talon, Neil S. *The New York Hospital, New York, N.Y.* *Psychiatry*
Taylor, Howard. *St. Luke's Hospital, New York, N.Y.* *Surgery*
Turner, Robert P. *Cambridge Hospital, Boston, Mass.* *Psychiatry*
Ursell, Philip C. *Children's Hospital of D.C., Washington, D.C.* *Pediatrics*
Van der Heide, Douglas J. *The New York Hospital, New York, N.Y.* *Psychiatry*
Vernon, Mary E. L. *Duke University Medical Center, Durham, N.C.* *Pediatrics*
Veteran, Frank A. *University of Florida Affiliated Hospitals, Gainesville, Fla.* *Surgery*
Welch, Elizabeth A. *Roger Williams General Hospital, Providence, R.I.* *Medicine*
Wilets, Gregory A. *Presbyterian Medical Center, Denver, Colo.* *Medicine*
Wong, Kamehameha K., Jr. *Johns Hopkins Hospital, Baltimore, Md.* *Medicine*
Wood, John C. *Presbyterian Hospital, New York, N.Y.* *Pediatrics*
Woodriffe, Phillipa G. *Mount Sinai Hospital, New York, N.Y.* *Surgery*
Yaremchuk, Michael J. *New England Deaconess Hospital, Boston, Mass.* *Surgery*
Yergan, John. *Montefiore Hospital Center, Bronx, N.Y.* *Social Medicine*
Zoltick, Jerel M. *Roosevelt Hospital, New York, N.Y.* *Medicine*

STUDENT ROSTER: CLASS OF 1977

Aaronson, Michael Jay Miami, Fla.
B.A., Cornell, 1973
Alexander, Frederick, Jr. Gladwyne, Pa.
B.A., Dartmouth, 1973
Arkow, Stan David Ozone Park, N.Y.
B.S., SUNY (Stony Brook), 1973
Ascher, Elizabeth Kasen Lexington, Mass.
B.A., Yale, 1973
Auchincloss, Elizabeth Lowell Ridgewood, N.J.
B.A., Yale, 1973
Baker, Robert William Scarsdale, N.Y.
B.A., Princeton, 1973
Ballantyne, Garth Hadden Port Washington, N.Y.
B.A., Harvard, 1973
Barsa, John Joseph Orangeburg, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Bassett, Susan Bronxville, N.Y.
B.S., Mount Holyoke, 1973
Bauer, Bertha Ann Brooklyn, N.Y.
B.A., Smith, 1973
Benson, Mitchell Clark Hewlett, N.Y.
B.S., Union (New York), 1973
Bhark, Philip Emerson, N.J.
Columbia
Bock, John Edward Swann Harbor, Md.
B.A., Princeton, 1973
Bodkin, Cordy Elaine Palo Alto, Calif.
B.A., Michigan, 1967
Bressman, Susan Englewood, N.J.
B.A., Barnard, 1973

Brown, Richard Paul Alexandria, Va.
B.A., Virginia, 1973
Buchholz, Gary David San Jose, Calif.
B.S., California (Davis), 1970
Calabrese, Daniel Anthony Brooklyn, N.Y.
B.S., New York University, 1971
M.S., Massachusetts Institute of Technology, 1973
Cambria, Richard Paul Roselle, N.J.
B.A., Holy Cross, 1973
Cervoni, Francisco Miguel San Juan, Puerto Rico
B.S., Le Moyne, 1972
Chamberlain, Marc Charles Berkeley, Calif.
B.A., California (Berkeley), 1973
Coonley, Craig Joseph Schenectady, N.Y.
B.S., Union (New York), 1973
Coverton, Ronald Wayne Richmond, Va.
B.A., Virginia, 1973
Davis, Jeffrey Paul Madison, Wis.
B.S., Wisconsin, 1968; Ph.D., 1972
Demartini, Paul Dean Englewood, N.J.
B.A., Columbia, 1972
Derenoncourt, Frantz Joseph Brooklyn, N.Y.
B.A., Columbia, 1972
Dietz, Frederick Richard Akron, Ohio
B.A., Harvard, 1973
Dodds, Peter Robert Stroudsburg, Pa.
B.A., East Stroudsburg State, 1973
Doubilet, Peter Michael Montreal, Canada
B.S., McGill, 1969
Ph.D., Massachusetts Institute of Technology, 1973
Dreher, Gerald Francis Brooklyn, N.Y.
B.A., Holy Cross, 1973
Dufresne, Craig Roger Shrewsbury, Mass.
B.A., Vermont, 1973
Dunaif, Andrea Elizabeth White Plains, N.Y.
B.A., Sarah Lawrence, 1973
Dworkin, Paul Adams, Mass.
B.S., M.S., Rensselaer Polytechnic Institute, 1972, 1973
Fain, Wendy B. Providence, R.I.
B.A., Wesleyan, 1971
Fanucchi, Michael Paul San Francisco, Calif.
B.S., Stanford, 1973
Feldman, Edward S. Mount Vernon, N.Y.
B.A., Harvard, 1972
Fingerhut, James William Berkeley, Ill.
B.S., Illinois, 1973
Fitz-James, Ingrid Anne-Marie New York, N.Y.
B.A., Sarah Lawrence, 1973
Fox, James Lester, Jr. Wilmette, Ill.
B.A., Bowdoin, 1973
Frank, Susan Judith Roslyn, N.Y.
B.A., Pennsylvania, 1972
Garcia, Carmen Josefina Passaic, N.J.
B.A., Rutgers, 1973
Gerber, Diane Louise Park Forest, Ill.
B.A., Vassar, 1973
Goldman, Ira Steven Jericho, N.Y.
B.A., Rochester, 1973
Gorman, Jack Matthew Monsey, N.Y.
B.A., Pennsylvania, 1973
Gould, Robert John Patchogue, N.Y.
B.A., Tufts, 1973
Greenebaum, Ellen Scarsdale, N.Y.
B.A., Barnard, 1973
Griggs, Edward Albert, Jr. Livingston, N.J.
B.S., Yale, 1973
Grodman, Marc Dennis Newark, N.J.
B.A., Pennsylvania, 1973
Gualtieri, Richard John Brooklyn, N.Y.
B.A., Columbia, 1973
Gustafson, Gregory Miner Brookside, N.J.
B.A., Yale, 1971
Haasler, George Bruce Buffalo, N.Y.
B.A., SUNY (Buffalo), 1973
Halleran, David Ros New York, N.Y.
B.S., Villanova, 1973
Hammond, David B. New York, N.Y.
B.A., Rochester, 1973
Hayes, Frederick Dwayne New York, N.Y.
B.S., Pittsburgh, 1969
Heldman, Jay Perry Yonkers, N.Y.
B.A., Columbia, 1973
Heller, Caren Alyson Braintree, Mass.
B.A., Radcliffe, 1973

Henry, Ronald Maurice Washington, D.C.
B.S.E.E., North Carolina State, 1971
Hensel, Bruce Martin Bayside, N.Y.
B.A., California (Los Angeles), 1971
Herron, Merinda Juanita Atlanta, Ga.
B.A., Pennsylvania, 1973
Hillyard, David Randall Ogden, Utah
B.S., Utah, 1973
Hoffman, Mark Alan New Orleans, La.
B.A., Amherst, 1972
M.S., Tulane, 1973
Hutson, Glenda New York, N.Y.
B.S., Tougaloo, 1973
Jorgensen, Jacob William III Fair Oaks, Calif.
B.S., Massachusetts Institute of Technology, 1973
Juncos, Jorge Luis Bayamon, Puerto Rico
B.S., Puerto Rico, 1973
Kane, Mary Agnes New York, N.Y.
B.A., Barnard, 1973
Kantor, Lauren Woodbury, N.Y.
B.A., Pennsylvania, 1973
Kaplan, Jeffrey S. New York, N.Y.
B.S., State University of New York (Downstate), 1970
Kaufmann, Charles Arthur Forest Hills, N.Y.
B.S., Massachusetts Institute of Technology, 1971
Kinney, Walter Keith Ardsley, N.Y.
B.A., Vassar, 1973
Knobler, Joanna Gabin New York, N.Y.
B.A., Radcliffe, 1972
Kopelman, Rima Gail Jericho, N.Y.
B.A., Barnard, 1971
Kopelson, Gene Oceanside, N.Y.
B.A., Princeton, 1973
Kritzler, Robert Kimball Saddle River, N.J.
B.A., Johns Hopkins, 1973
Kroop, Steven Arthur Brooklyn, N.Y.
B.S., Yale, 1973
Kutscher, Austin Harrison, Jr. Scarsdale, N.Y.
B.A., Columbia, 1973
Lane, Edward Michael Plandome, N.Y.
B.A., Columbia, 1972
Lattimer, Jon Kingsley Englewood, N.J.
B.A., Dartmouth, 1973
Legant, Patricia Albuquerque, N.M.
B.A., Stanford, 1968
Ph.D., Yale, 1973
Leibowitz, David Steven Berkeley, Calif.
B.A., Columbia, 1972
Levine, Joel Barry N. Bellmore, N.Y.
B.A., Pennsylvania, 1973
Lewis, Neville Barrington Norwalk, Conn.
B.S., Hartford, 1973
Lewis, Vivian Chicago, Ill.
B.A., Radcliffe, 1973
Light, Susan Ellen Pittsburgh, Pa.
B.A., Clark, 1973
Lindsey, Ronald Wayne Lakewood, N.J.
B.A., Yale, 1972
Liu, John Peter Rosedale, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Makadon, Harvey Jay Philadelphia, Pa.
B.A., Cornell, 1969
Matzkin, Ellen Melrose Park, Pa.
B.A., Smith, 1969
Mayer, Deborah A. New York, N.Y.
B.A., Wisconsin, 1968
Meehan, Justine Mary Plandome Manor, N.Y.
B.A., Newton College of the Sacred Heart, 1970
Mellow, Nancy Lynn Chicago, Ill.
B.A., Illinois, 1967
Mendes, Donna Maria Roosevelt, N.Y.
B.A., Hofstra, 1973
Milgrom, Martin Louis Snyder, N.Y.
B.S., Massachusetts Institute of Technology, 1973
Mitchell, William James Lake Stevens, Wash.
B.A., Washington, 1973; B.S., 1973
Mottow, Linda Susan Brookline, Mass.
B.A., Radcliffe, 1973
Mouradian, Wendy Elyse Brooklyn, N.Y.
B.A., Wellesley, 1971
M.S., Massachusetts Institute of Technology, 1973
Natanson, Charles Milwaukee, Wis.
B.A., Wisconsin, 1972

Nath, Barbara Joyce Purchase, N.Y.
B.A., Smith, 1964
Neely, Sara Atlanta, Ga.
B.A., Smith, 1973
Orloff, Paul Norman Brooklyn, N.Y.
B.A., Syracuse, 1968
Otto, Nancy Ruth Everett, Wash.
B.A., SUNY (Albany), 1970
Pachtman, Erica Phoenix, Ariz.
B.A., Vassar, 1972
Pamelia, Frank Xavier Scranton, Pa.
B.S., Scranton, 1973
Pan, Ellen Day-mei New York, N.Y.
B.A., Barnard, 1973
Patashnik, Stephen Los Angeles, Calif.
B.A., University College of Los Angeles, 1971
Perez, Jose Ramon Kings Park, N.Y.
Duke University
Perrone, Howard Francis New York, N.Y.
B.A., Columbia, 1973
Phillips, Rogsbert Frenzel Decatur, Ga.
B.S., Georgia, 1970
M.S., Bridgeport, 1972
Prusnofsky, Leslie Brooklyn, N.Y.
B.S., Brooklyn, 1973
Pugh, George Arthur Youngstown, Ohio
B.A., Harvard, 1973
Rago, Thomas Anthony Trumbull, Conn.
B.A., Columbia, 1973
Recht, Lawrence David Bronx, N.Y.
B.A., New York University, 1973
Roberts, Thomas Elberry III Saratoga, Calif.
B.S., Stanford, 1973
Rodriguez-Villa, Fernando Jose Rio Piedras, Puerto Rico
B.S., Puerto Rico, 1973
Roen, Janet Leslie New York, N.Y.
B.A., Radcliffe, 1973
Rohrer, Richard Jeffrey Cincinnati, Ohio
B.S., Yale, 1973
Rose, David Forest Hills, N.Y.
B.A., Haverford, 1973
Rosenthal, Linda Ellen San Carlos, Calif.
B.A., Stanford, 1973
Rosenwein, Marilyn Fay Kew Gardens, N.Y.
B.S., Clark, 1973
Rubin, Mark New York, N.Y.
Harvard
Ruderman, William Brandon Demarest, N.J.
B.A., Rochester, 1972
Sacks, Frank Martin Boston, Mass.
B.S., Brown, 1970
Sampson, Jas de Seabron Jacksonville, Fla.
B.A., Yale, 1973
Schaefer, Daniel William Los Angeles, Calif.
B.A., California (Los Angeles), 1972
Schuster, Allen Howard Kew Gardens, N.Y.
B.A., Columbia, 1972; M.A., 1973
Scolnick, Barbara Bronx, N.Y.
B.S., Barnard, 1973
Shangold, Gary Alan Perth Amboy, N.J.
B.A., Pennsylvania, 1973
Shapiro, Lee Schulman Paterson, N.J.
B.A., Yale, 1973
Siegel, Alice Jo Roslyn Heights, N.Y.
B.A., Smith, 1968
M.A., Columbia, 1970
M.A., Teachers College, 1971
Silverstein, Marc David Framingham, Mass.
B.S., Massachusetts Institute of Technology, 1971
Smith, Evelyn Meriden, Conn.
B.A., Smith, 1973
Smith, Steven Philip Murray, Ky.
B.A., Columbia, 1973
Spain, William Jonathen New York, N.Y.
B.S., Wisconsin, 1973
Spiro, Alan Hugh Bronx, N.Y.
B.A., New York University, 1973
Spotnitz, William David New York, N.Y.
B.A., Harvard, 1973
Stamm, Patricia Jane New York, N.Y.
B.A., Barnard, 1970
Stern, Robert Gary Hewlett, N.Y.
B.A., Harvard, 1973
Stillman, Margaret Ann Bay Shore, N.Y.
B.A., Yale, 1973
Stone, Ross G. Pottsville, Pa.
B.A., Yale, 1973

Streicher, Eric Michael Wilmington, Del.
B.A., Middlebury, 1973
Thorsen, Marie Kristin Milwaukee, Wis.
B.A., Wisconsin, 1969
Tropper, Pamela Joan Jericho, N.Y.
B.A., Brandeis, 1972
Vaida, George Arthur
Rio Piedras, Puerto Rico
B.A., Fordham, 1972
Valente, Philip Thomas
Long Island City, N.Y.
B.A., Columbia, 1971
Vasquez, Raphael Luis Bronx, N.Y.
B.S., City College, 1965
Washington, Eleby Rudolph
Maplewood, N.J.
B.A., Brown, 1973
Weathers, Susan Wheeler
Scarsdale, N.Y.
B.A., Oberlin, 1972
Webb, Hueldine Locust Grove, Ga.
B.S., Spelman, 1973
Williams, Antoinette Helena Hollis, N.Y.
B.A., Fisk, 1972
Wollack, Jan Brian Park Ridge, N.J.
B.S., Yale, 1973
Woolf, Paul Kenneth Worcester, Mass.
B.A., Brandeis, 1973
Ying, Christopher Y. Ridgewood, N.J.
B.S., Massachusetts Institute of Technology, 1973
Zachary, Kirk Jonathon Brooklyn, N.Y.
B.S., New York University, 1973
Zarian, Lawrence Peter Bayside, N.Y.
B.A., Columbia, 1973

STUDENT ROSTER: CLASS OF 1978

Aberizk, William Joseph, Jr.
Lawrence, Mass.
B.A., Harvard, 1974
Addonizio, Gerard Carmen
Medford, Mass.
B.A., Columbia, 1974
Albertsen, Peter Christian Tenafly, N.J.
B.A., Princeton, 1974
Alfano, Domenic F. Greenwich, Conn.
B.S., Fordham, 1973
Allen, Julian Lewis Bethlehem, Pa.
B.A., Columbia, 1974
Arnold, Linda Jennette
Menlo Park, Calif.
B.A., Stanford, 1974
Arzeno, George Santurce, Puerto Rico
B.S., Massachusetts Institute of Technology, 1974
Ashwell, Jonathan David Bethesda, Md.
B.A., Colgate, 1974
August, Jeremy West Nyack, N.Y.
B.S., Johns Hopkins, 1974
Benvenisty, Alan Ira Merrick, N.Y.
B.S., Union (Schenectady), 1974
Berlinsky, Elaine Carol Providence, R.I.
B.A., Brown, 1970;
M.S., Harvard, 1972
Bleicher, Robert Howard
Fair Lawn, N.J.
B.S., Michigan, 1974
Bohler, Henry C. L. Hampton, Va.
B.S., Hampton Institute, 1974
Brauntuch, Glenn R. Greenwich, Conn.
B.A., Rochester, 1974
Brittain, David C. Ithaca, N.Y.
B.A., Middlebury, Vt., 1974
Cantor, Richard Stephen Roslyn, N.Y.
B.A., Rochester, 1974
Capeci, Ellen Marianne Pelham, N.Y.
B.A., Wellesley, 1974
Capone, Robert Anthony
Jackson Heights, N.Y.
B.A., New York University, 1974
Carpenter, Duncan B. Scarsdale, N.Y.
B.A., Bowdoin, 1974
Chen, Clarence Lee Chicago, Ill.
B.A., Oberlin, 1970
Cohen, Mark William
New Rochelle, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Comstock, Marcia L. Keene, N.H.
B.A., Manhattanville, 1974

Daly, Jennifer Susan Kettering, Ohio
B.A., Sarah Lawrence, 1973
Daniel, Samuel Jeremiah Bronx, N.Y.
B.A., Queens, 1974
Davidson, Leslie New York, N.Y.
B.A., Harvard, 1970
Dewar, Jean New York, N.Y.
B.A., Barnard, 1973
DiSalvo, Donald Nicholas Hartsdale, N.Y.
B.A., Williams, 1974
Donnelly, Christine Marie Kew Gardens, N.Y.
B.A., Manhattanville, 1973
Edgerton, Ada Badillo Forest Hills, N.Y.
B.S., St. John's (New York), 1974
Fein, Alan Bruce Malverne, N.Y.
B.A., Rochester, 1974
Fithian, Thomas Edward Bridgeton, N.J.
B.A., Pennsylvania, 1974
Flood, Stephen J. Fond du Lac, Wisc.
B.A., Rippon, 1973
Fogelquist, Jan Elizabeth Dhahran, Saudi Arabia
B.A., Barnard, 1973
Frenk, Ellen New York, N.Y.
B.A., New York University, 1974
Friedman, Joseph Harold Yonkers, N.Y.
B.A., Chicago, 1969
Goodrich, James Tait Laguna Beach, Calif.
B.S., California (Irvine), 1974
Gordon, Charles R. New York, N.Y.
B.S., City College, 1966
Gyi, Bo Rangoon, Burma
B.A., Brandeis, 1971
Hansen, Darcyjeanne Allendale, N.J.
B.A., Williams, 1974
Heiken, Jay Paul N. Arlington, N.J.
B.A., Williams, 1974
Henrikson, Karl Eric Stamford, Conn.
B.A., Vermont, 1973
Herter, Geoffrey Elvin Manchester, Mass.
B.A., Harvard, 1973
Himmelstein, David Urius New York, N.Y.
B.A., Bennington, 1972
Hoagland, Peter Maclean Denver, Colo.
B.A., Harvard, 1974
Hollander, Ellen Lynne Forest Hills, N.Y.
B.A., Harpur, 1969
Hritz, Ann Jo New York, N.Y.
B.S., SUNY (Buffalo), 1969
Hutt, Cheryl Sue Brooklyn, N.Y.
B.A., Barnard, 1974
Hyams, David Michael Miami, Fla.
B.A., Vassar, 1974
Jones, Ellen Elizabeth Frankfort, N.Y.
B.A., Smith, 1974
Jordan, James Lewis Stanford, Calif.
B.S., Stanford, 1974
Kaunitz, Andrew Moss Westport, Conn.
B.A., Brown, 1974
Kerin, Douglas W. New York, N.Y.
B.A., Pennsylvania, 1974
Kertzner, Robert Michael Brightwaters, N.Y.
B.A., Cornell, 1974
Kesselbrenner, Michael B. New York, N.Y.
B.A., Columbia, 1974
Kim, Ben Jackson Heights, N.Y.
B.A., Harvard, 1974
Koppel, Barbara Sue Fort Plain, N.Y.
B.A., Rochester, 1974
Kopynec, Bohdan William Deposit, N.Y.
B.A., SUNY (Binghamton), 1974
Krilov, Leonard Roy Bronx, N.Y.
B.A., Brandeis, 1973
LaBove, Phillip Stuart Deal, N.J.
B.S., Trinity (Connecticut), 1974
Lander, Richard Harding New York, N.Y.
B.A., Yale, 1968
Langa, Victoria Margaret Cherry Hill, N.J.
B.A., Rutgers, 1974
Larach, David Ross Princeton, N.J.
B.A., Princeton, 1974
Larmon, Steven Sigurd Olean, N.Y.
B.A., Dartmouth, 1974
Lauer, Robert Charles Madison, N.J.
B.S., Bucknell, 1968
Lawrence, Denise E. New York, N.Y.
B.A., Manhattanville, 1968
Lemberg, Steven Bayside, N.Y.
B.S., SUNY (Stony Brook), 1974
Lessing, David Portland, Ore.
B.A., Columbia, 1974

Levine, Stewart Cedarhurst, N.Y.
B.A., New York University, 1974
Lim, Suzanne Lee New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Magidson, Jory Glen Tenafly, N.J.
B.A., Rochester, 1974
Mandelbaum, David E. New York, N.Y.
B.A., Columbia, 1974
Manning, Reginald Eugene Brooklyn, N.Y.
B.A., Columbia, 1974
Manson, Carolyn Sue Cleveland Heights, Ohio
B.A., Yale, 1973
Marchand, Babette Greenwich, Conn.
B.A., Pennsylvania, 1973
Margulis, Elynne Beth Williston Park, N.Y.
B.S., Yale, 1974
Meisler, William Jay Teaneck, N.J.
B.A., Columbia, 1974
Melnick, David Alan Valley Stream, N.Y.
B.A., Columbia, 1974
Meyers, Peter Kevin Staten Island, N.Y.
B.A., Columbia, 1974
Monsanto, Enrique H. Whitestone, N.Y.
B.A., Queens, 1972
Mossberg, Jane Elizabeth New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Murphy, William Ignatius III Pasadena, Calif.
B.S., Fordham, 1967
Nagelberg, Steven Brooks Tarrytown, N.Y.
Bucknell
Nakano, George James San Francisco, Calif.
B.A., M.A., California (Berkeley), 1972, 1973
Nepola, James Vincent Ridgewood, N.J.
B.S., Yale, 1974
Newmark, Jonathan Maplewood, N.J.
B.A., Harvard, 1974
Ostow, Abigail Ruth Riverdale, N.Y.
B.A., Wellesley, 1974
Owens, Lance Stuart Salt Lake City, Utah
B.A., Utah State, 1974
Paetzold, Nancy M. Massapequa Park, N.Y.
B.A., Adelphi, 1973
Peart, Harold T. Brooklyn, N.Y.
B.S., M.A., Howard, 1971, 1973
Phillips, Arnold Morris New York, N.Y.
B.S., Massachusetts Institute of Technology, 1974
Piro, Philip A. Encino, Calif.
B.S., Yale, 1974
Pogany, Anton C. South Orange, N.J.
B.A., Yale, 1973
Propper, Michael Steven Westbury, N.Y.
B.A., B.S., Pennsylvania, 1974
Puleo, Peter Robert Brooklyn, N.Y.
B.A., Princeton, 1974
Rak, Ihor Wolodymyr Astoria, N.Y.
B.S., City College, 1974
Rattner, Susan Lee Troy, N.Y.
B.S., Union (Schenectady), 1974
Reife, Ross Alexander Hillside, N.J.
B.A., Pennsylvania, 1974
Reynard, Michael Daly City, Calif.
B.S., Stanford, 1974
Riester, Carolyn E. Huntingdon Valley, Pa.
B.S., Yale, 1974
Roberts, Richard Scott Pearl River, N.Y.
B.S., Colgate, 1974
Rock, Ira Glenn New York, N.Y.
B.A., Lawrence, 1974
Roisman, Jeffrey A. New York, N.Y.
B.A., Columbia, 1972
Rosecan, Jeffrey Sanford St. Louis, Mo.
B.A., Columbia, 1974
Rosen, Barry L. Highland Park, Ill.
B.S., Haverford, 1974
Rosenthal, Robert Louis Sands Point, N.Y.
B.A., Yale, 1974
Ruby, Steven Todd Boston, Mass.
B.A., Brandeis, 1974
Santulli, Thomas Vincent East Greenwich, R.I.
B.A., Columbia, 1966

Schackman, Lynn Debra New York, N.Y.
B.S., Yale, 1974
Schaffner, Andrea New York, N.Y.
B.A., Barnard, 1973
Schanck, Carolyn Agnes Albertson, N.Y.
B.S., Mount Saint Vincent, 1974
Schwartz, Lawrence Alan Scarsdale, N.Y.
B.A., Rochester, 1974
Sharp, Thomas Glinn Houston, Texas
B.A., Harvard, 1974
Sherwood, James Alan DeWitt, N.Y.
B.A., Hamilton, 1974
Sibley, Robert Emmett Staten Island, N.Y.
B.S., Notre Dame, 1974
Silver, Daniel Henry Los Angeles, Calif.
B.A., California (Berkeley) 1974
Soffer, Mark Jay Jackson Heights, N.Y.
B.A., Yale, 1972
Soong, Hunson Silver Spring, Md.
B.S., Massachusetts Institute of Technology, 1971
Sporn, Aaron Adolph Rosedale, N.Y.
B.S., SUNY (Stony Brook), 1974
Stein, Bruce Elliot Freeport, N.Y.
B.A., Pennsylvania, 1974
Stein, Douglas George Northboro, Mass.
B.S., Tufts, 1974
Steiner, Mark Edward Bloomfield Hills, Mich.
B.A., Harvard, 1972
Stern, Elizabeth Kay East Lansing, Mich.
B.A., Michigan State, 1967
Stetz, Dean Edward Bayside, N.Y.
B.A., Columbia, 1974
Stiff, Jacqueline Elaine Brooklyn, N.Y.
B.S., Cornell, 1974
Stricker, Raphael B. New York, N.Y.
B.A., Columbia, 1971
Tergis, Dorian Christopher Riverdale, N.Y.
B.S., Columbia, 1974
Thompson, Mindy Jennifer New York, N.Y.
B.A., Bryn Mawr, 1971
Trommer, Barbara Lois Kew Gardens, N.Y.
B.A., Queens, 1974
Troyer, Claudette Boston, Mass.
B.A., Princeton, 1974
Tucker, James Newman Elkins Park, Pa.
B.S., Tufts, 1974
Velazquez, Nelvis Hialeah, Fla.
B.A., Barnard, 1974
Versfelt, Mary Deborah Webster, N.Y.
B.A., Princeton, 1974
Wagman, Lawrence David Hempstead, N.Y.
B.A., SUNY (Buffalo), 1974
Wang, Victoria Adrian Rhode Island, N.Y.
B.A., Cornell, 1974
Ward, Robert J. Douglaston, N.Y.
B.S., Fairfield, 1974
Warshavsky, Calvin Robert Scarsdale, N.Y.
B.A., Princeton, 1974
Weinstock, Ruth Sue Bayside, N.Y.
B.A., Smith, 1974
Weitzman, Stephen Mitchell New Bedford, Mass.
B.A., Bowdoin, 1974
White, John Vincent Oak Park, Ill.
B.A., Northwestern, 1974
Widman, Lawrence Edward Elkins Park, Pa.
B.S., Massachusetts Institute of Technology, 1973
Wilking, Andrew Pray New York, N.Y.
B.A., Harvard, 1972
Winkler, Barbara Anne Bayside, N.Y.
B.A., Queens, 1974
Winkler, William P. New York, N.Y.
B.S., Brown, 1972
Wolinsky, David Gary Rochester, N.Y.
B.A., Columbia, 1974
Young, Henry A. Erie, Pa.
B.A., M.A., Harvard, 1974
Ziebur, Martha Alice Binghamton, N.Y.
B.A., Swarthmore, 1974

STUDENT ROSTER: CLASS OF 1979

Aisen, Paul Stephen Scarsdale, N.Y.
B.A., Harvard, 1975
Alexander, David Todd Matawan, N.J.
B.S., Yale, 1975
Aranow, Michael Henry
Hastings-on-Hudson, N.Y.
B.A., Harvard, 1975
Arden, James Richard New York, N.Y.
B.A., Columbia, 1971
Asherman, Steven Michael
New York, N.Y.
B.A., Columbia, 1975
Barry, Elizabeth Glen Cove, N.Y.
B.A., Pennsylvania, 1973
Barry, M. Anita Towson, Md.
B.S., Georgetown, 1975
Barton, Brooke Millon New York, N.Y.
B.A., Princeton, 1975
Bassett, Mary Travis New York, N.Y.
B.A., Radcliffe, 1974
Becker, Mary Alice Bronx, N.Y.
B.S., Mount Saint Vincent, 1966
Bernstein, Debra Jean Plainview, N.Y.
B.S., SUNY (Stony Brook), 1975
Bitetti, Janice Marie Huntington, N.Y.
B.S., Wellesley, 1975
Bluh, Donald Gary
Long Island City, N.Y.
B.A., Columbia, 1973
Blumenthal, Celia Beth New York, N.Y.
B.A., Barnard, 1974
Bogdan, Susan Lee Lake Mohegan, N.Y.
B.S., SUNY (Cortland), 1967
M.S., Sarah Lawrence, 1975
Boucher, Ralph Albert Flushing, N.Y.
B.A., Yale, 1975
Boxhill, Agnes Mary New York, N.Y.
B.S., City College, 1974
Brin, Mitchell Francis Livingston, N.J.
B.A., Pennsylvania, 1975
Cadet, Jean Lud Brooklyn, N.Y.
B.S., Brooklyn, 1975
Cafferty, Maureen Sarah
Jackson Heights, N.Y.
B.S., St. John's (New York), 1975
Cali, Michael Dennis Jamestown, N.Y.
B.A., Rochester, 1975
Camras, Carl Bruce Glencoe, Ill.
B.A., Yale, 1974
Chodos, Joel Ethan Bronx, N.Y.
B.A., Columbia, 1975
Cogen, Fran R. Syosset, N.Y.
B.S., Cornell, 1975
Conway, Stephen Robert
Hartford, Conn.
B.A., Amherst, 1975
Craig, Michael Joseph New Milford, N.J.
B.A., Columbia, 1975
Creger, Philip Sterne Stanford, Calif.
B.A., Stanford, 1975
Csete, Marie Elizabeth Colonia, N.J.
B.A., Princeton, 1975
Cuadros, Cesar Luis Santa Monica, Calif.
B.S., California (Los Angeles), 1975
Curtis, Anne Bernadette Penfield, N.Y.
B.A., Douglass, 1975
DeFelippo, Noel Peter Brooklyn, N.Y.
B.S., SUNY (Stony Brook), 1975
DiBiase, John Joseph Bronx, N.Y.
B.E., Cooper Union, 1975
Diefenbach, William Paul
Southampton, N.Y.
B.A., Columbia, 1972
Edinburgh, David Miles
Great Neck, N.Y.
B.S., Massachusetts Institute of
Technology, 1975
Evans, Walter Francis II Warwick, N.Y.
B.A., Dartmouth, 1975
Flick, Jonathan Andrew
Roslyn Heights, N.Y.
B.S., Yale, 1975
Forem, Sandra Lee Bronx, N.Y.
B.A., Barnard, 1975
Francomano, Thomas Bronx, N.Y.
B.A., New York University, 1973
Frankel, Etta Brener
B.S., Washington (St. Louis), 1967
M.Ed., Columbia, 1971
Gilbard, Jeffrey Paul Roslyn, N.Y.
B.A., Brown, 1975
Gordon, Kimberly Woodbridge, Conn.
B.A., Smith, 1975
Grelsamer, Ronald Paul New York, N.Y.
B.A., B.S., Brown, 1975
Harary, Albert Maurice
West Palm Beach, Fla.
B.A., Harvard, 1975

Holmberg, Scott Dewey Canton, Mass.
B.A., Harvard, 1971
Horowitz, Nina Ruth Silver Spring, Md.
B.A., Yale, 1975
Hradesky, Christine Louise Clearwater, Fla.
B.A., Cornell, 1973

Jacobs, Michael Aaron Short Hills, N.J.
B.A., Bowdoin, 1975
Jacobson, Ira M. Brooklyn, N.Y.
B.S., Yale, 1975
Johnson, Lawrence Philip Ridgewood, N.J.
B.A., Dartmouth, 1975
Jozefowicz, Ralph Francis Woodside, N.Y.
B.A., Johns Hopkins, 1975

Kahn, David Alan Great Neck, N.Y.
B.A., Haverford, 1975
Kahn, Jeffrey Paul Scarsdale, N.Y.
B.A., Swarthmore, 1975
Katz, Martha Ellen New York, N.Y.
B.A., Barnard, 1974
Kelsey, Peter Baker Rye, N.Y.
B.A., Princeton, 1975
Klutchko, Lynn Carol Massapequa Park, N.Y.
B.A., Yale, 1975
Knapp, Albert Bruce New York, N.Y.
B.A., Columbia, 1975
Knox, Karen Burnet Wilmington, Del.
B.A., Harvard, 1975
Korn, Jane Ellen Brooklyn, N.Y.
B.A., Michigan, 1975
Kosovsky, Karen Ann New York, N.Y.
B.A., Brown, 1975
Kucharchik, Thomas Farmingdale, N.Y.
B.A., Harvard, 1975
Kudlak, Theresa Tatiana Brooklyn, N.Y.
B.A., Barnard, 1971
Kurth, Donald James, Jr. Westwood, N.J.
B.A., Columbia, 1975
Kwiatkowski, David Joseph Middleville, N.Y.
B.S., California Institute of Technology, 1972

Labinson, Robert Merrill Fort Lee, N.J.
B.A., Rutgers, 1975
Lamm, Joel Lewis Roslyn Harbor, N.Y.
B.A., Brandeis, 1975
Lee, David Kuo-Ping Poughkeepsie, N.Y.
B.A., Yale, 1975
Lehman, Lawrence Brad Little Neck, N.Y.
B.A., Hofstra, 1975
Leibowitz, Steven Philadelphia, Pa.
B.A., Brandeis, 1975
Leventhal, Jeanne Louise Berkeley, Calif.
B.A., California (Berkeley), 1975
Levitan, Sara Anne New York, N.Y.
B.A., Hunter, 1975
Li, Lawrence Roslyn, N.Y.
B.A., Harvard, 1975
Lidofsky, Steven David Brooklyn, N.Y.
B.A., Columbia, 1975
Linder, Barbara Laura Bronx, N.Y.
B.S., Cornell, 1975
Liskin, Barbara Ann Englewood, N.J.
B.A., Smith, 1974
Litsky, Alan Steven New Britain, Conn.
B.A., Princeton, 1975
Lowe, Franklin Charles New York, N.Y.
B.A., Princeton, 1975

McCrimons, Daniel Everett St. Albans, N.Y.
B.A., Harvard, 1975
McDonald, Patricia Ann Chicago, Ill.
B.A., Dartmouth, 1975
Madoff, Robert David Newton Centre, Mass.
B.A., Harvard, 1975
Manevitz, Alan Z. A. Brooklyn, N.Y.
B.S., Brooklyn, 1975
Mark, Laurence Peter New York, N.Y.
B.S., Harvey Mudd, 1975
Marks, Elizabeth Leah New York, N.Y.
B.A., Radcliffe, 1974
Martin, Eva Berkeley, Calif.
B.A., California (Berkeley), 1975
Matsuba, Howard Mitsuyuki Honolulu, Hawaii
B.A., Hawaii, 1974
Maxwell, Celia J. St. Albans, N.Y.
B.S., Hunter, 1973
Mercado, Nydia Esther New York, N.Y.
B.A., Hunter, 1975
Merkow, Robert Lewis Madison, Wisc.
B.A., Wisconsin, 1975

Miller, Andrew David Allentown, Pa.
B.A., Princeton, 1975
Miller, Ronald William Davenport, Iowa
B.A., Macalester, 1968
Morrison, David Scott Woonsocket, R.I.
B.A., Holy Cross, 1975
Muncaster, Richard Bernard Woodstown, N.J.
B.A., Yale, 1975
Orell, Jeffrey Allan Baldwin, N.Y.
B.A., Columbia, 1974
Orenstein, Harry Herman Mystic, Conn.
B.A., Harvard, 1975
Oshiyoye, Adekunle E. Lagos, Nigeria
B.S., Howard, 1974
Packer, Michael Gordon Bristol, R.I.
B.A., Harvard, 1975
Palmisano, Joanne Joyce Union, N.J.
B.S., Maryland, 1974
Peyser, Karen Edna New York, N.Y.
B.A., Barnard, 1973
Polan, H. Jonathan Merion, Pa.
B.A., Princeton, 1974
Pollack, David Mark Cedarhurst, N.Y.
B.A., Brown, 1975
Pollack, Geoffrey Jay Whitestone, N.Y.
B.A., Columbia, 1975
Pollack, Steven Allen Whitestone, N.Y.
B.A., Columbia, 1975
Purcell, Ralph N. New York, N.Y.
B.A., Columbia, 1975
Quarnstrom, Thomas James St. Clair Shores, Mich.
B.A., Columbia, 1975
Raiken, Deborah Faye Williamsville, N.Y.
B.A., Brandeis, 1974
Rauf, Paul Wesley Poughkeepsie, N.Y.
B.S., Columbia, 1970
Rayport, Stephen Gregory Perrysburg, Ohio
B.A., Harvard, 1975
Ronner, Hilary Jane Bronx, N.Y.
B.A., Barnard, 1975
Ross, Alan Barry Union, N.J.
B.A., Cornell, 1972
Roth, Philip Brooklyn, N.Y.
B.A., Columbia, 1975
Rubinstein, Alina Anna New York, N.Y.
B.A., New York University, 1967
Russo, Paul Ithaca, N.Y.
B.A., Colgate, 1975
Satlin, Lisa Michelle White Plains, N.Y.
B.A., Mount Holyoke, 1975
Scerbo, James Alexander Morris Plains, N.J.
B.A., Bucknell, 1975
Schlesinger, Mark Paul Cranford, N.J.
B.A., Rutgers, 1975
Schubert, Armin Reichenau bei Linz, Austria
B.S., Yale, 1975
Schwartz, Harold I. New York, N.Y.
B.A., Queens, 1969
Sciascia, Thomas Richard Buffalo, N.Y.
B.A., Massachusetts Institute of Technology, 1975
Seaman, Cheryl Tenafly, N.J.
M.A., Chicago
Sebag, Jerry Flushing, N.Y.
B.A., Columbia, 1973
Seitz, William Henry, Jr. Staten Island, N.Y.
B.S., Fairfield, 1971
Shapiro, David Matthew Chicago, Ill.
B.A., Princeton, 1975
Shea, Steven J. C. New York, N.Y.
B.A., Harvard, 1968
Siegel, Robert Errol Flushing, N.Y.
B.A., Queens, 1975
Siegfried, Virginia Ann Redwood City, Calif.
B.S., Stanford, 1975
Silbert, Glenn R. Woodbury, N.Y.
B.S., Columbia, 1975
Sims, Kathie B. Wellesley, Mass.
B.A., Middlebury, 1971
Sims, Nathaniel Merriman South Burlington, Vt.
B.A., Harvard, 1975
Stackhouse, Thomas G. Hamilton Square, N.J.
B.S., Muhlenberg, 1975
Stark, Barbara J. Garden City, N.Y.
B.A., Smith, 1975
Stein, H. David Newton, Mass.
B.A., Brandeis, 1975
Sternfeld, Nancy Lee Brooklyn, N.Y.
B.A., Carleton, 1972
Stevens, Laurie Ann Palo Alto, Calif.
B.A., Yale, 1975

Stork, Linda Claudette Englewood, N.J.
B.A., Yale, 1974
Struthers, Charlene Middleton Livermore, Calif.
B.A., Stanford, 1975
Stuchiner, David Jon New York, N.Y.
B.A., Sarah Lawrence, 1975
Sulis, Carol Ann Lynnfield, Mass.
B.A., Wellesley, 1973
Sybert, Peter Egon Walnut Creek, Calif.
B.A., California (Berkeley), 1975
Szpaizman, Sergio Bronx, N.Y.
B.A., Lehman, 1974
Taus, Richard Howard Bronx, N.Y.
B.A., Yale, 1975
Thane, Michael William Harpersfield, N.Y.
B.S., Cornell, 1975
Werner, Morgan Simon Scarsdale, N.Y.
B.A., Colorado, 1975
Wissel, Paul Stephen Scarsdale, N.Y.
B.S., Baldwin-Wallace, 1974
Witzel, Phyllis Beth Elizabeth, N.J.
B.A., Brandeis, 1975
Wormser, Andrew Charles New York, N.Y.
B.A., Princeton, 1975
Yacovone, Joseph Fred Elmhurst, N.Y.
B.A., Columbia, 1975
Zatzkis, Mark Asher West Orange, N.J.
B.A., Harvard, 1975
Zolnik, Lawrence Anthony Meriden, Conn.
Columbia
Zuflacht, Richard Neil Old Westbury, N.Y.
B.A., Williams, 1975

STUDENT ROSTER: CLASS OF 1980

Allan, Anne Elizabeth Wilmington, Del.
B.A., Johns Hopkins, 1976
Ahlborn, Thomas Nesbitt Wilmette, Ill.
B.A., Harvard, 1975
Anderson, Nancy Ann New York, N.Y.
B.A., Barnard, 1976
Anthony, Kent Ervin Cleveland, Tenn.
B.A., Columbia, 1976
Apfelbaum, Terri Francine New York, N.Y.
B.A., Bernard, 1976
Appel, Rena Lee New York, N.Y.
B.A., Barnard, 1972
Bello, Jacqueline Anne Rye, N.Y.
B.A., Dartmouth, 1976
Berkeley, Hope Ann Jersey City, N.J.
B.A., Barnard, 1972
Bernstein, Carol Ann Hollywood, Fla.
B.A., Bryn Mawr, 1969
Blumenkehl, Mark Lewis Paterson, N.J.
B.S., Brooklyn College, 1976
Boakye-Adjei, Oheneba Brooklyn, N.Y.
B.S., Brooklyn College, 1976
Bogen, Craig Alan Coram, N.Y.
B.A., Pennsylvania, 1976
Bransford, Kent Jackson Anaheim, Calif.
B.A., California (Berkeley), 1976
Brudney, Karen Florence Cambridge, Mass.
B.A., Yale, 1973
Cartelli, Nancy Ann Bronx, N.Y.
B.A., Hunter, 1976
Casper, Theodore Pearl River, N.Y.
B.A., Cornell, 1976
Chernov, Claudia Ruth Newton, Mass.
B.A., Barnard, 1975
Chicon, Dulce Amalia New York, N.Y.
B.A., Barnard, 1975
Chow, John Hei-Sing Corona, N.Y.
B.S., Columbia, 1976
Cohen, David Eliot Teaneck, N.J.
B.A., Wesleyan, 1976
Czaja, Mark James Natick, Mass.
B.A., Yale, 1976
Danso, Alex Kingsley New York, N.Y.
B.A., Harvard, 1976
Davey, Richard Thomas Dix Hills, N.Y.
B.S., Massachusetts Institute of Technology, 1976
DeAngelis, Lisa Marie New Haven, Conn.
Wellesley
Deland, Jonathan Thorndike Darien, Conn.
B.A., Harvard, 1976

Delaney, Kathleen Ann Los Angeles, Ca.
B.S., California (Irvine), 1972
Dennison, Allen Mansfield Bronx, N.Y.
B.A., Harvard, 1975
Dillon, Peter Riverside, Conn.
B.S., Harvard, 1976
Dolinsky, Paul Arthur Hartford, Conn.
B.S., Tufts, 1976
Downey, Richard Stuart New York, N.Y.
B.A., Columbia, 1976
Dubin, Leslie Beryl New York, N.Y.
B.A., Princeton, 1976
Dwosh, Jack White Sulphur Springs, N.Y.
B.A., Cornell, 1976

Ecker, Hendrik Michel Philadelphia, Pa.
B.A., Princeton, 1975
Elliot, Deidre Davina New York, N.Y.
B.S., Columbia, 1976
Engler, Alan Michael Weston, Mass.
B.A., Yale, 1976
Epner, Elliot M. North Woodmere, N.Y.
B.A., Wesleyan, 1976
Epstein, Joel Harvey Albertson, N.Y.
B.A., Sarah Lawrence, 1976

Fakharzadeh, Frederick F. Teaneck, N.J.
B.A., Cornell, 1976
Farrell, Matthew Michael Bronx, N.Y.
B.S., Manhattan, 1974
Fehrs, Laura J. Armonk, N.Y.
B.A., Kirkland, 1976
Feiman, Nancy Beth New York, N.Y.
B.A., Yale, 1976
Feller, Matthew Frederick Bayside, N.Y.
B.S., Columbia, 1976
Fisher, William A. Bantam, Conn.
B.S., Yale, 1976
Fithian, Eileen Marie Lititz, Pa.
B.A., Pittsburgh, 1972
Flamm, Michael Jay New York, N.Y.
B.A., Yale, 1976
Fox, Joyce Ellen New York, N.Y.
B.A., Bryn Mawr, 1976
Fox, Susan C. New York, N.Y.
B.S., Ohio State, 1971
Friedmann, Martin Lewis North Salem, N.Y.
B.A., Yale, 1973

Gardine, Robert Louis Brooklyn, N.Y.
B.A., Columbia, 1976
Geddes, Anne Caroline Santa Ana, Calif.
B.A., Oberlin, 1976
Gelfand, Janice Marcy Briarcliff Manor, N.Y.
B.S., Cornell, 1975
Geller, Peter Levine Brookside, N.J.
B.A., Harvard, 1971
Genkins, Steven Mark New York, N.Y.
B.A., Yale, 1976
Geraci, Kira Antonia Malverne, N.Y.
B.A., Adelphi, 1976
Gerber, Samuel David Durham, Conn.
B.A., Yale, 1976
Goland, Robin Stephanie Skokie, Ill.
B.A., Radcliff, 1976
Graney, John Francis Swarthmore, Pa.
B.A., Swarthmore, 1973
Griffin, Patrick Herbert Tulsa, Okla.
B.A., Columbia, 1976
Grundfest, Warren Scott Belleville, N.J.
B.A., Swarthmore, 1975
Halio, Joel Henry Brooklyn, N.Y.
B.A., Columbia, 1974
Hamm, Peter Gerard Washington, D.C.
B.A., Princeton, 1976
Handlin, David Stephen North Woodmere, N.Y.
B.A., Harvard, 1976
Handwerger, Sandra Dee N. Bellmore, N.Y.
B.A., Vassar, 1976
Hardy, Howard Wesley, III Washington, D.C.
B.A., Harvard, 1976
Harris, David Alan Beverly Hills, Calif.
B.S., Yale, 1976
Herbert, Robert Alan Scarsdale, N.Y.
B.A., Columbia, 1976
Hollenberg, James Paul Great Neck, N.Y.
B.A., Harvard, 1976
Hotes, Richard Eric West Hartford, Conn.
B.S., Trinity, 1976
Howell, John Taylor, III Cold Spring Harbor, N.Y.
B.S., Princeton, 1976
Hurwitz, Samuel Michael Hamdon, Conn.
B.A., Columbia, 1976

Jacobson, Wendy Nan Scarsdale, N.Y.
B.A., Wesleyan, 1976

Kawata, Carol Lynn Los Angeles, Calif.
B.A., Stanford, 1976

Kiest, Curtis Alan Portland, Oreg.
B.A., Harvard, 1976

Kumaki, David James Dolton, Ill.
B.A., Chicago, 1976

Langendorf, Frederick New York, N.Y.
B.A., Harvard, 1973

La Pook, Jonathan David Great Neck, N.Y.
B.S., Yale, 1975

Lauderdale, Bradley Tenafly, N.J.
B.A., Harvard, 1976

Lee, Dennis Elliott Rochester, N.Y.
B.S., Brown, 1976

Leff, Steven Russell Flushing, N.Y.
B.A., Columbia, 1976

Legant, Paul Morris Tempe, Ariz.
B.A., Whittier, 1970

Levey, Meryl Anne Bronx, N.Y.
B.S., Lehman, 1976

Lewis, Barbara Ann Shorewood, Wis.
B.A., Wisconsin, 1975

Lipkin, Alan Frederick Bayside, N.Y.
B.A., Rochester, 1976

Lipschitz, Sherman Scott Brooklyn, N.Y.
B.A., Columbia, 1976

Lipson, Mindy Ann St. Paul, Minn.
B.S., Massachusetts Institute of Technology, 1976

Lurio, Joseph G. Dobbs Ferry, N.Y.
B.A., Columbia, 1976

Lyle, Henry Richard Nutting Lake, Mass.
B.A., Harvard, 1976

McCann, Peter Damian New York, N.Y.
B.A., Columbia, 1975

Macchi, Paul J. Westchester, N.Y.
B.A., Columbia, 1976

McCluskey, Leo Francis West Paterson, N.J.
B.S., Boston, 1976

Mackenzie, Jane Atkinson Greenfield, N.H.
B.S., Brown, 1976

McKinley, George Franklin Glasgow, Ky.
B.A., Louisville, 1976

Malin, Barnet David Beverly Hills, Calif.
B.A., Brown, 1976

Manelis, Jocelyn Beth Fall River, Mass.
B.A., Wellesley, 1976

Markowitz, Steven Barnard West Hartford, Conn.
B.A., Yale, 1975

Mazzeo, Vincent Paul Brookville, N.Y.
B.A., Columbia, 1976

Moley, Jeffrey Fletcher Quogue, N.Y.
B.A., Harvard, 1976

Morris, Valery Lois New Milford, N.J.
B.A., Princeton, 1976

Murphy, Douglas Roger Queens, N.Y.
B.S., Columbia, 1976

Navia, Bradford Armando Ridgewood, N.J.
B.A., Columbia, 1976

Newman, Bernard Patrick, III Nanuet, N.Y.
B.A., Williams, 1976

Nunez, Domingo C. New York, N.Y.
B.A., Columbia, 1976

O'Connell, Genevieve Cecilia Waterbury, Conn.
B.A., Connecticut, 1972

O'Laughlin, Martin Pius Kansas City, Mo.
B.A., Harvard, 1976

Oliver, Dennis Carey Delhi, N.Y.
B.S., Georgetown, 1976

Orentriech, David Scott New York, N.Y.
B.S., Hobart, 1976

Pankewycz, Oleh George New Brunswick, N.J.
B.S., Rutgers, 1976

Paradis, Marc Andre Belmont, Mass.
B.A., Holy Cross, 1976

Parnes, Anita Lynn New York, N.Y.
B.A., Radcliffe, 1976

Paul, Matthew David Teaneck, N.J.
B.A., Wesleyan, 1975

Pfeffer, Sondra Jane New York, N.Y.
B.A., Barnard, 1976

Plonsky, Leslie David Upper Montclair, N.J.
B.A., Pennsylvania, 1976

Quevedo, Jonathan Paul Bronx, N.Y.
B.S., Fordham, 1976

Radin, Arthur Irwin Bronx, N.Y.
B.A., Columbia, 1976

Ressa, Ames Daniel
Port Washington, N.Y.
B.A., Brown, 1976

Roman, Mary Jean Indianapolis, Ind.
B.A., Barnard, 1974

Romano, Angela Antonia
Brooklyn, N.Y.
B.S., Barnard, 1976

Rosenfeld, Suzanne Syosset, N.Y.
B.A., Sarah Lawrence, 1975

Rosenthal, Robert Bruce
West Hartford, Conn.
B.S., Yale, 1976

Rubenfeld, Marian Ruth Bronx, N.Y.
B.A., Barnard, 1976

Rund, Deborah Gasner New York, N.Y.
B.A., City College, 1970

Saber, William Leland Freeport, N.Y.
B.A., Hampshire, 1976

Sahar, David I. Rutherford, N.J.
B.A., Columbia, 1975

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B.A., Brown, 1976

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B.S., Yale, 1976

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B.S., Tufts, 1976

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B.A., Harvard, 1976

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Goshen, N.Y.
B.A., Barnard, 1976

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California (Berkeley)

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B.A., Princeton, 1976

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Irvington, N.J.
B.A., Rutgers, 1976

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B.S., Harvard, 1976

Steinberg, Robin Faith
Long Beach, N.Y.
B.A., Smith, 1976

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B.A., Dartmouth, 1976

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B.A., Barnard, 1971

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B.A., Columbia, 1975

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B.A., Columbia, 1976

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B.S., Yale, 1973

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Yellin, Tova Gail Aurora, Ill.
B.A., Barnard, 1976

Zeidel, Mark Lawrence Waitsfield, Vt.
B.S., M.S., Yale, 1976

Zwas, Felice Rosel Brooklyn, N.Y.
B.A., Barnard, 1976

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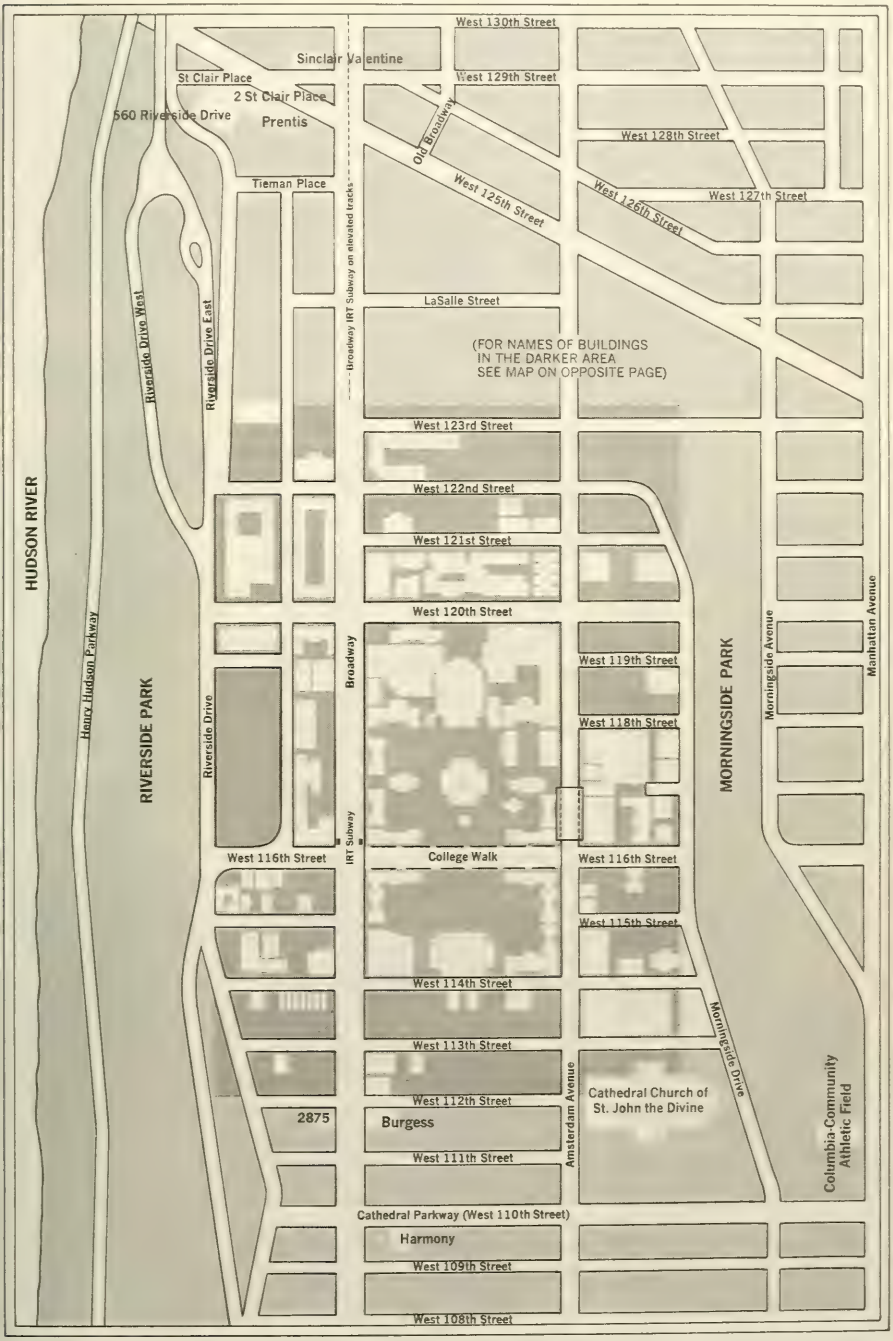

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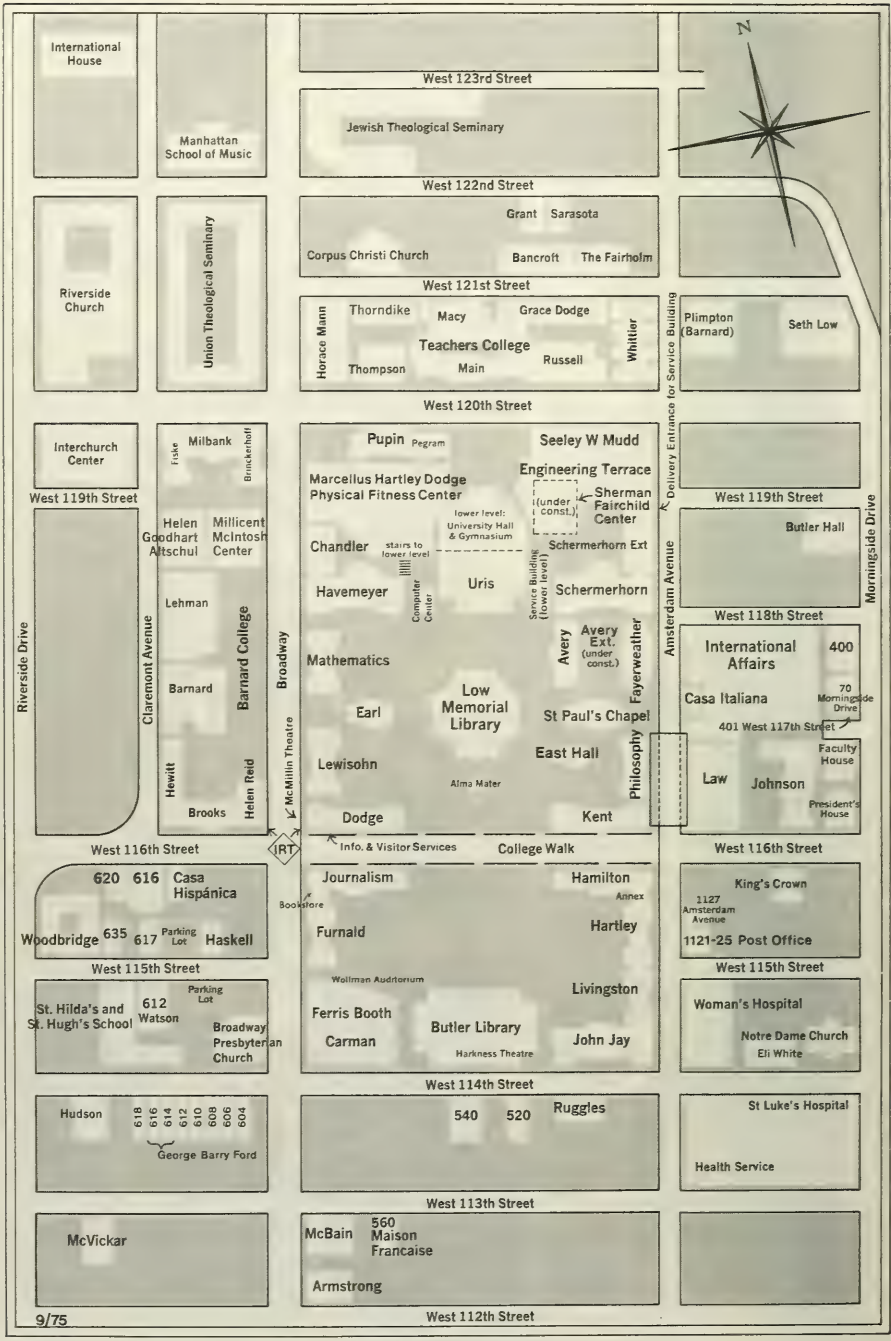

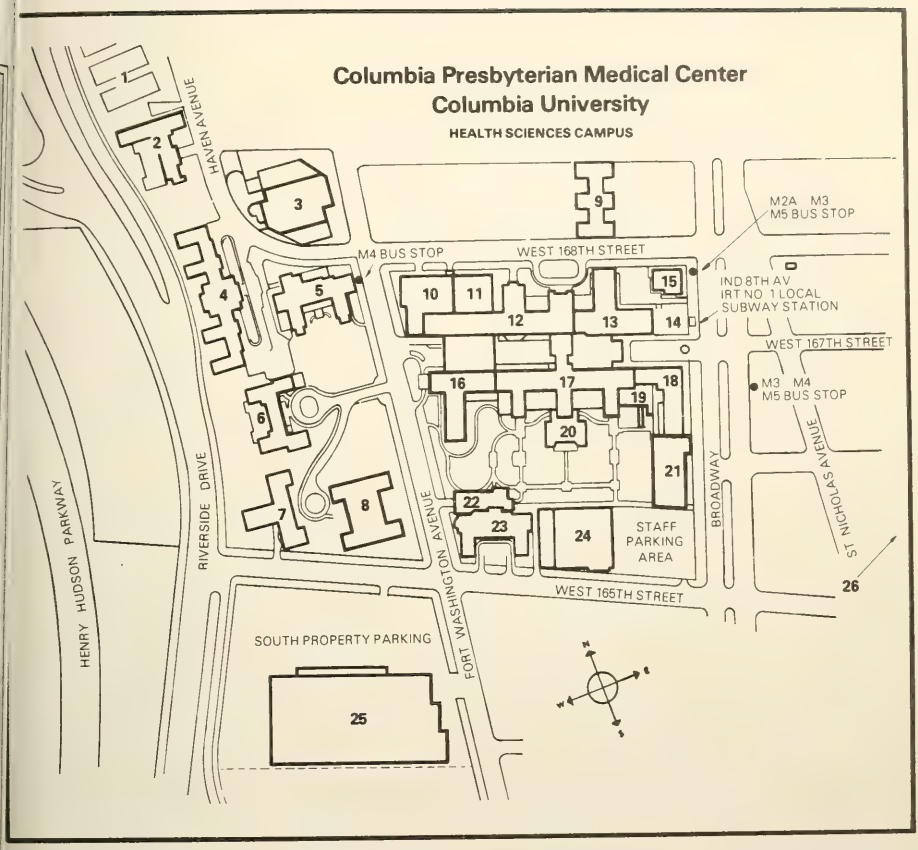

11 Alumni Auditorium
8 Dana W. Atchley Pavilion
18 The Babies Hospital
21 Babies Hospital Research, Teaching, and Office Addition
2 Bard Hall Medical Student Residence
1 Bard Haven Towers
10 William Black Medical Research Building
3 Institute of Cancer Research
3 Cancer Research Center
24 Central Service Building
12 College of Physicians and Surgeons
26 Center for Community Health Systems
13 School of Dental and Oral Surgery

9 Georgian Nurses Residence
22 Edward S. Harkness Eye Institute
23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
3 Health Sciences Center–Augustus Long Library
3 Institute of Human Nutrition
2/12 International Institute for the Study of Human Reproduction
6 Anna C. Maxwell Hall, School of Nursing Residence

5 The Neurological Institute of New York
6 School of Nursing
25 Parking facilities
17 Presbyterian Hospital
New York Orthopedic Hospital
Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
15 School of Public Health
19 Radiotherapy Center
13 Vanderbilt Clinic
14 Vanderbilt Clinic Addition

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1977-1978

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Postmaster: Send Form 3579 to Columbia University Bulletin, 303 Journalism Building, New York, N.Y. 10027

Columbia University Bulletin • Volume 11 • Number 15 • August 29, 1977

Published once a month in January, February, March, May, and September; twice a month in April, June, and July; five times a month in August, for sixteen consecutive issues, by Columbia University, New York, N.Y. 10027. Second class postage paid at New York, N.Y.

The Faculty of Medicine
College of Physicians & Surgeons

Columbia University Bulletin

1977-1978

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Major Religious Holidays

For a statement of University policy on absence for the observance of religious holidays see *Admission, Registration, and Expenses*—Attendance.

JUNE

27 Monday, through July 1, Friday.* Registration, including payment of fees, for third- and fourth-year students.

JULY

1 Friday. Academic year begins for third- and fourth-year students.

4 Monday. Holiday for third- and fourth-year students.

AUGUST

1 Monday.† Last day to apply or reapply for October degrees (see September 8).

22 – 26 Monday – Friday. Optional early registration for second-year students.

SEPTEMBER

1 Thursday.* Registration, including payment of fees, for first-year students.

2 Friday.* Registration, including payment of fees, for second-year students.

5 Monday. Labor Day. Holiday for third- and fourth-year students.

6 Tuesday. Academic year begins for first- and second-year students.

8 Thursday. Last day to file *late* application for October degrees.

OCTOBER

26 Wednesday. Award of October degrees.

NOVEMBER

4 Friday.† Last day to apply or reapply for January degrees (see December 9).

8 Tuesday. Election Day. Holiday for first- and second-year students.

24 – 25 Thursday – Friday. Thanksgiving holidays for first-, second-, and third-year students.

DECEMBER

9 Friday. Last day to file *late* application for January degrees.

17 Saturday, through January 2, 1978, Sunday. Vacation for first-, second-, and third-year students.

**Students allowed to register after the period specified must pay a late fee.*
†Students who apply after this date must pay a late fee.

JANUARY

13 Friday. First semester ends for first-year students.

16 Monday. Second semester begins for first-year students.

25 Wednesday. Award of January degrees.

FEBRUARY

20 Monday. Washington's Birthday. Holiday for first- and second-year students.

20 Monday.* Last day to apply or reapply for May degrees (see April 3).

APRIL

1—16 Saturday—Sunday. Vacation for first-year students.

3 Monday. Last day to file *late* application for May degrees.

11—23 Tuesday—Sunday. Vacation for second-year students.

21 Friday. Major Clinical Year concludes for third-year students.

22—30 Saturday—Sunday. Vacation for third-year students.

24 Monday. Major Clinical Year begins for second-year students.

MAY

1 Monday. Elective curriculum begins for third-year students.

3 Wednesday. Dean's Day for Medical Student Research.

17 Wednesday. Commencement and P&S Convocation.

29 Monday. Memorial Day. Holiday for all students.

JUNE

3 – 18 Saturday – Sunday. Vacation for second-year students.

9 Friday. Second semester ends for first-year students.

19 Monday. Major Clinical Year resumes for second-year students.

Dates of National Board Exams

Part I	September 7 – 8, 1977 June 13 – 14, 1978 (tentative)
Part II	September 27 – 28, 1977 April 11 – 12, 1978 (tentative)

**Students who apply after this date must pay a late fee.*

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A. GERARD DeVOE. *Harkness Professor Emeritus of Ophthalmology*

ZACHARIAS DISCHE. *Professor Emeritus of Biochemistry*

ANTHONY N. DOMONKOS. *Professor Emeritus of Clinical Dermatology*

JOHN H. DUNNINGTON. *Professor Emeritus of Ophthalmology*

HERBERT O. ELFTMAN. *Professor Emeritus of Anatomy*

JOHN W. FERTIG. *Professor Emeritus of Biostatistics*

THOMAS P. FLEMING. *Professor Emeritus of Library Service*

CHARLES A. FLOOD. *Professor Emeritus of Clinical Medicine*

GOODWIN L. FOSTER. *Professor Emeritus of Biochemistry*

CHARLES L. FOX, Jr. *Professor Emeritus of Microbiology (in Surgery)*

JACOB FURTH. *Professor Emeritus of Pathology*

ELIZABETH S. GILL. *Professor Emeritus of Nursing*

LEONARD J. GOLDWATER. *Professor Emeritus of Occupational Medicine*

HARRY GRUNDFEST. *Professor Emeritus of Neurology*

RUTH J. GUTTMAN. *Professor Emeritus of Radiology*

CUSHMAN D. HAAGENSEN. *Professor Emeritus of Clinical Surgery*

MICHAEL HEIDELBERGER. *Professor Emeritus of Immunochemistry*

PAUL F. A. HOEFER. *Professor Emeritus of Neurology*

GEORGE H. HUMPHREYS II. *Mott Professor Emeritus of Surgery*

HAROLD W. JACOX. *Professor Emeritus of Radiology*

MAXWELL KARSHAN. *Professor Emeritus of Biochemistry*

FORREST E. KENDALL. *Professor Emeritus of Biochemistry*

LAWRENCE C. KOLB. *Professor Emeritus of Psychiatry*

FERDINAND F. McALLISTER. *Professor Emeritus of Clinical Surgery*

RUSTIN McINTOSH. *Carpentier Professor Emeritus of Pediatrics*

RICHARD L. MASLAND. *Merritt Professor Emeritus of Neurology*

MEYER M. MELICOW. *Given Professor Emeritus of Urology*

H. HOUSTON MERRITT. *Moses Professor Emeritus of Neurology, Dean Emeritus, and Vice President Emeritus in Charge of Medical Affairs*

FREDERICK A. METTLER. *Professor Emeritus of Anatomy*

KARL MEYER. *Professor Emeritus of Biochemistry*

LESTER A. MOUNT. *Professor Emeritus of Clinical Neurological Surgery*

MARGARET R. MURRAY. *Professor Emeritus of Anatomy*

DAVID NACHMANSOHN. *Professor Emeritus of Biochemistry*

CARL T. NELSON. *Professor Emeritus of Dermatology*

PHILLIP O. POLATIN. *Professor Emeritus of Clinical Psychiatry*

J. LAWRENCE POOL. *Professor Emeritus of Neurological Surgery*

EDITH H. QUIMBY. *Professor Emeritus of Radiology (Physics)*

HARRY M. ROSE. *Borne Professor Emeritus of Microbiology*

JOHN E. SCARFF. *Professor Emeritus of Clinical Neurological Surgery*

WILLIAM H. SEBRELL, Jr. *Williams Professor Emeritus of Nutrition*

BEATRICE C. SEEGAL. *Professor Emeritus of Microbiology*

AURA E. SEVERINGHAUS. *Professor Emeritus of Anatomy and Associate Dean Emeritus*

LAWRENCE W. SLOAN. *Professor Emeritus of Clinical Surgery*

ALAN DeF. SMITH. *Professor Emeritus of Orthopedic Surgery*

WARREN M. SPERRY. *Professor Emeritus of Biochemistry*

LEO SROLE. *Professor Emeritus of Clinical Surgery*

FRANK E. STINCHFIELD. *Professor Emeritus of Orthopedic Surgery*

HOWARD C. TAYLOR, Jr. *Rappleye Professor Emeritus of Obstetrics and Gynecology*

JULES G. WALTNER. *Professor Emeritus of Clinical Otolaryngology*

SIDNEY C. WERNER. *Professor Emeritus of Clinical Medicine*

MAYNARD C. WHEELER. *Clinical Professor Emeritus of Ophthalmology*

SAMUEL M. WISHIK. *Professor Emeritus of Public Health (Public Health Practice)*

ABNER WOLF. *Professor Emeritus of Neuropathology*

JOSEPH ZUBIN. *Professor Emeritus of Psychology*

Columbia Presbyterian Medical Center

View of Bard Hall from Riverside Drive

Bard Haven Towers

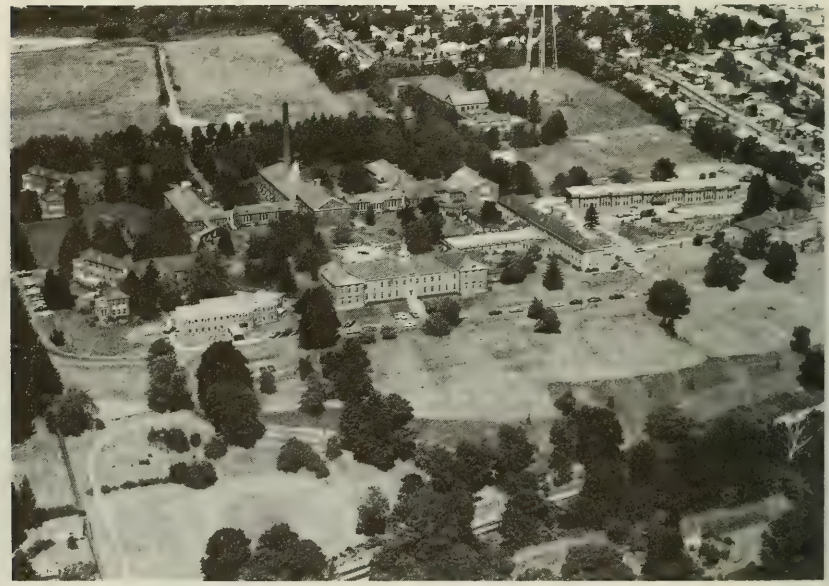
Martin Luther King, Jr., Pavilion, Harlem Hospital Center

St. Luke's Hospital Center

Roosevelt Hospital

Mary Imogene Bassett Hospital

Overlook Hospital



Helen Hayes Hospital

The Health Sciences Center—Augustus Long Library

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which this knowledge develops.

History of the College and the University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic department, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to

Riverside Drive, and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Health Sciences Center—Augustus Long Library, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Health Sciences Library

The Columbia University Health Sciences Library is housed in the new Health Sciences Center—Augustus Long Library building. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 335,000 volumes and a staff of 34, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 3,000 periodicals are received regularly. An entire floor of the library has been designated as a media center and is equipped with a variety of audiovisual materials. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. A library handbook and other materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of Harvard and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Student memberships in the New York Academy of Medicine Library (at 103rd Street and Fifth Avenue) are available for an annual fee. Applications for membership, which includes borrowing privileges, should be directed to the Academy Library.

Cancer Center/Institute of Cancer Research

The Cancer Research Center was established in 1973. In 1977 it was designated the Cancer Center/Institute of Cancer Research. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's, Roosevelt, and Harlem. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the care of patients with cancer. The Center is charged with the responsibility for research, education, and cancer-patient care by all health professionals.

The Institute of Cancer Research of Columbia University, College of Physicians and Surgeons, was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia Presby-

terian Medical Center in 1938. The Institute and Center are fully integrated. The Institute, following the closing of the Francis Delafield Hospital, moved into the Health Sciences Center Cancer Research Laboratories.

The Center is composed of four operational divisions: Basic Science Research, Clinical Research and Patient Care, Education and Outreach Programs, and Administration and Core Facilities.

Center for Community Health Systems

The Center for Community Health Systems is an interdisciplinary and interdepartmental project which enlists varied resources of the University, particularly those of the Faculty of Medicine and its affiliated hospitals, in a systematic attack on problems in the organization and delivery of health care, with a predominant, though not exclusive, focus on urban areas.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition which relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are under way, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the seventh floor of the Health Sciences Center.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorders, out-of-wedlock pregnancy, marital and other social problems. The Institute consists of the Center for Reproductive Sciences, including the divisions of reproductive biochemistry, physiology, and reproductive morphology, and the Center for Population and Family Health, which includes the divisions of social and administration sciences, family life services, clinical evaluation, and sexual behavior.

The office of the International Institute for the Study of Human Reproduction is at Bard-Haven Towers, 60 Haven Avenue.

Affiliated Hospitals

The Presbyterian Hospital

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,550 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies. The capacity of the hospital is 194. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 324 private and semi-private patients.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of nervous diseases, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary and Hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 122 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies two floors of the Presbyterian Hospital building and one floor in Harkness Pavilion, providing inpatient facilities for 165 patients, including bassinets for 48 infants.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 186 beds and a staff of specialists who are all salaried and full time. In 1976 there were 108,303 visits to the Outpatient Department. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the

delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 23,000 volumes and about 350 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of nearly 1,100 beds serving Central Harlem and environs, responsible for the care of approximately 400,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is a 150-bed independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. New patient facilities are under construction; the research building has been renovated and an active biomedical engineering unit developed.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 540-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and the primary care aspects of medical practice through a program of broad-based clinical experience for graduate physicians.

St. Luke's Hospital

St. Luke's Hospital Center was established in 1850 and has been on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center, which contains 773 beds including 53 pediatric beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than 90,000 visits a year and the various clinics almost 170,000 visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

The Roosevelt Hospital

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about 263,000 outpatient and emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in September of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Statement of Nondiscriminatory Policies

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R. (to which Columbia University is subject), the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to Ms. Beverly C. Clark, the University's Equal Opportunity Officer (309-C Low Memorial Library, New York, N.Y. 10027, telephone 212-280-3554), who has been designated as the University's Title IX Coordinator, or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $20. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received.

Failure to receive letters of recommendation is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 147 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. However, the geographical diversity of our next entering class will probably be affected by new state law which strongly encourages us to accept two state residents for each out-of-state resident in the entering class.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and made decisions, and have developed a desire for a continuous program of self-education. In the selection of students, preference is given to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, and willingness and ability to assume responsibility, and who have already given evidence that they are likely to become ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Only a very small number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if a vacancy exists.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past, the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been able to admit relatively few individuals either to an entering class or with advanced standing whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. At registration a student provides the information required and pays tuition and fees. The Office of the Registrar, on the first floor of the Black Building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Any who do not now have a number should obtain one from their local Social Security office well in advance of registration.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until the fees have been paid. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period without the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Conduct

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the

instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Some of the major holidays occurring on weekdays during the current academic year are:

Tuesday – Wednesday, September 13 – 14	Rosh Hashanah
Thursday, September 22	Yom Kippur
Tuesday – Wednesday, September 27 – 28	Succoth (first days)
Tuesday – Wednesday, October 4 – 5	Succoth (concluding days)
Friday, March 24	Good Friday
Friday, April 28	Pesach (concluding day)

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (Black Building, Room 138) no later than September 16 in the autumn term and February 1 in the spring term. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Tuition, the student health service fee, and the health insurance premium are payable in advance and as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (see the Academic Calendar) they will not be reduced, and a late fee of $10 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments $4,490.00

Health Service and Hospital Insurance Fees

For all full-time students, per year (September 1 – August 31)

Health service fee	$200.00
Hospital insurance premium	143.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium of the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee

only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Student Accounting Division, Black Building, Room 141, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees and Late Fees

For admission	$20.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Registrar in writing: failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health fee, the hospital insurance premium, application fees, late fees, and special fees are not refundable.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

Adjustment Schedule—Withdrawals Only

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Registrar, 630 West 168th Street. In the 1977–1978 academic year, the last day to file for an October degree is August 1; for a January degree, November 4; and for a May degree, February 20. A late fee of $10 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 8 for October degrees, December 9 for January degrees, April 3 for May degrees.) Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application by paying a renewal fee of $1. A $10 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above).

Requests for Transcripts

Transcripts may be requested by writing to the Office of the Registrar, 630 West 168th Street, New York, N.Y. 10032. *Official* transcripts must be sent by the University directly to an official address such as another university, a hospital, a business firm, or a government agency. However, a student may request an unofficial transcript (stamped "Student Copy"). There is a charge of $2 for each transcript requested except for those which are sent between offices of Columbia University. Checks accompanying transcript requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$4,490.00
Health and Hospitalization Insurance Fees	343.00
Books and supplies	600.00
Microscope rental cost and equipment	240.00

In addition to the educational costs listed above, each first-year student should budget approximately $3,800 to cover housing ($1,100), food ($1,775), clothing, laundry and dry cleaning ($350), and miscellaneous expenses ($575).

There are differences in the length of the academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for single and married students for each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X immersion objectives).

Students are required to purchase dissection equipment for the first year in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for students in the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with facilities for swimming, basketball, squash, and other sports.

Room rates at Bard Hall depend on the length of the academic year and the room assignment. Information on the cafeteria service, room application forms, and other details are provided to entering students by the Admissions Office. For further information, write to the Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Tower I on the Medical Center campus. Married or single students may rent apartments in Towers II and III; the rents are higher. Information may be obtained from the University Housing Office, 400 West 119th Street, New York, N.Y. 10027.

Financial Aid

Financial Aid programs are administered without regard to race, creed, color, national origin, or sex.

All financial aid awards are based on verified need. Each year applicants for financial aid are required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

Upon acceptance into the College, students receive the financial aid policy statement and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694-4100.

Spouses of medical students seeking employment at the Medical Center should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside, and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state.

The Financial Aid Office provides interested students with the necessary information on applications for these programs. Applicants to medical school should consult college premedical offices or financial aid offices for information on the competitive examinations for New York State Regents Awards.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy Black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States or

permanent residents (visa status). Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 250 West 57th Street, New York, N.Y. 10019 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R. G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. Annually, the Financial Aid Office of the College of Physicians and Surgeons advises students of the availability of this scholarship.

There are a number of scholarship funds administered by the Financial Aid Office of the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ALUMNI A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA AND ABRAHAM PENNER BERNHEIM SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle in memory of his wife.

GEORGE BLUMENTHAL, Jr. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

Dr. HARRY BRITENSTOOL MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

Dr. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

ALONZO CLARK Founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a Physicians and Surgeons student.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

HENRY D. CRUGER Bequest of Helen Cruger in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DAVID M. DEVENDORF Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

FRANCIS E. DOUGHTY Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE Given by members of the Class of 1961 in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE Bequest of Edward Percy Eglee, Class of 1913, Member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a Clinical Professor of Medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY Given by friends and colleagues of Dr. Frank Hartley, Class of 1880.

WILLIAM H. HEMINGWAY

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

CHARLES EUGENE HUBER, Sr. Bequest of Francis D. Huber in memory of his father.

FRANCIS HUBER Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students studying under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber.

ELIZABETH HALL McCULLOGH Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons.

HERBERT D. MANLEY Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this Fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER Bequest of the donor to be awarded with preference to a gifted woman student.

P & S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given in memory of her husband by Mrs. Richard Rhodebeck.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH F. SAPHIR MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus' services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, Jr., MEMORIAL Given by Dr. E. E. Stewart, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

HAROLD S. VAUGHAN Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established in memory of his father by Dr. Carmine T. Vicale.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

WHITING–Dr. FORDYCE B. St. JOHN SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Dr. JAMES LANCELOT WILSON Awarded to a student selected by the College of Physicians and Surgeons.

CLARA AND KRIKOR ZOHRAB Awarded with preference to students of Armenian extraction.

Gift Funds

CITIBANK MEDICAL SCHOLARSHIP Established by the Citibank. The recipient must have demonstrated need for support and he/she must be a New York State resident.

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

CHARLES F. IKLÉ SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual Gift. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in non-urban areas.

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees or members of the applicant's immediate family (i.e., mother, father, siblings). Foreign students may borrow from federal or state loan funds upon being granted permanent resident status in the United States.

Federal Health Professions Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student during a nine-month academic year is $3,500. Over a twelve-month year a student may borrow as much as $4,667. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 7 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* for up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during periods of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state which has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of

professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is $5,000, and the total outstanding loan balance at any one time may not exceed $15,000. Interest may not be in excess of an annual percentage rate of 7 percent. Lending institutions participating in this program can provide further information regarding interest rates. Repayment begins nine to twelve months after the student's studies have been completed or otherwise terminated, and is usually scheduled for completion within five to ten years.

Deferment of repayment is permitted for up to three years during the student's service in the military, the Peace Corps, or Volunteers in Service to America (VISTA).

Other Sources of Loans. The National Education Loan Guarantee Program of the American Medical Association Education and Research Foundation (AMA-ERF) makes possible loans to all medical students, interns, and residents in good standing who are United States citizens, provided they are enrolled in full-time training at an AMA-approved American medical school or hospital and can demonstrate financial need. Medical students must have completed their first semester in order to qualify. The maximum amount that can be borrowed in a twelve-month period (September 1 to August 31) is $1500. Up to a total of $10,000 may be borrowed over a period of seven years. The minimum loan for any one interim note is $400.

Most AMA-ERF guaranteed loans provide for interest at one percent over the prime rate at the time the loan is made and one percent additional during the payout period. Interest charges must be paid in full each year by the student. Payment of principal is deferred during the training period. Prepayment of principal may be made at any time without penalty.

University loan funds are also intended to supplement students' resources. Repayment of these loans is scheduled to begin nine months after graduation and to be completed within ten years (provided that a repayment rate of at least $30 a month is maintained). The interest charge for University loans is 3 percent a year of the outstanding loan balance.

The University has certain named loan funds from which medical students may borrow when monies are available. Included among these are the following funds:

PETER AMAZON Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms in memory of her husband, to create a revolving, interest-free loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, Jr. (1916) Used for the assistance of needy students in the medical school.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 (1944) Gifts from various members of the Class of 1919. To be used for interest-free loans to deserving students.

CAROL ELISSA GARDNER Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE (1970) A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. Gift of George L. Hawkins, Jr., Class of 1941.

ROBERT ABBE MACKENZIE Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S wherever they are in training or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

JESSIE SMITH NOYES

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in 15 years; without interest for the first ten years; with five percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay in memory of her husband.

JANEWAY PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

KAUFMAN AWARD Awarded to the senior in the College who, in the opinion of the Faculty, has the potential for exemplifying the humanitarian spirit in the art and practice of medicine, as lived by the late Dr. Walter Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

Dr. HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and Chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH Awarded to the individual who has done the most creative and original research in dermatology. Given in her husband's memory by Mrs. Lowenfish.

EDITH AND DENTON McKANE PRIZE Bequest of Edith U. McKane, to be awarded for basic or clinical research in ophthalmology performed during attendance at the College of Physicians & Surgeons.

Dr. HAROLD LEE MEIERHOF PRIZE Awarded on recommendation of the Professor of Pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

JOSEPH GARRISON PARKER AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

Dr. HAROLD B. STEVELMAN AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

UROLOGY PRIZES Awarded to senior students for the best essays on urological subjects during the school year.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the Professor of Pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of the diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and chairmen who head the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Fine Arts, Athletics, Community Youth Work, Accessories, Social, and Columbia Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The chairman of the committee is the Alpha Omega Alpha Councillor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper twenty-five percent of the class. The total number of student members elected from any class may not exceed one-sixth of the total number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

Alumni Association of the College of Physicians and Surgeons

All graduates of the College of Physicians and Surgeons are *ipso facto* members of the Alumni Association of the College. The office of the Alumni Association is at 630 West 168th Street, New York, N.Y. 10032.

The Program of Instruction

The objective of the recently revised program is to provide students with an environment in which they can develop a sense of responsibility for their continuing education. In addition to learning the basic skills essential to the modern physician-scientist, time is designated to allow full development of each individual's special talents and needs. Curricular flexibility, the methods by which medical knowledge is acquired and evaluated, an early exposure to clinical material through demonstrations and correlation clinics, and greater use of small group teaching are among the program changes which have received special emphasis.

The first year is devoted to basic science courses, with correlation clinics to help relate basic science material to medical problems. After the summer vacation, basic science courses are continued in the second year, with the addition of interdepartmental courses in abnormal human biology, which relates clinical material to the basic sciences, and introduction to the patient, which introduces history taking and the physical examination.

The major clinical year is applied exclusively to a rotation of clerkships in the clinical disciplines. Under close supervision, the student is helped to develop attitudes, skills, knowledge, and habits applicable to a wide variety of clinical disorders. The primary education aims are to help the student to elicit an accurate and comprehensive history, to carry out complete and thorough physical examinations, to develop an understanding of the mechanisms by which common patterns of disease affect the human being, to learn the principles necessary to reach valid clinical and diagnostic appraisals and effective therapeutic plans, and to acquire consideration and perceptiveness in the handling of patients.

The final year is devoted primarily to clinical and basic science electives. These are arranged individually, and with flexibility, so as to prepare students to meet a variety of needs and goals and to permit the use of the resources of the entire University, of affiliated hospitals as well as of programs elsewhere. Combined programs, courses in multiple disciplines, advanced clinical clerkships, and research are all possible during this period. The importance of clinical and laboratory investigation by the student is stressed. Students are encouraged to engage in some definite research project during the elective year.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses, Major Clinical Year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: the First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes

to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

Students in the College of Physicians and Surgeons are required to pass National Board examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to the first and second years respectively.

Numbers with no suffix indicate courses of the major clinical year covering a period of twelve weeks or less and being repeated to multiple-class groups.

Summary of Curriculum

First-Year Class, 1977

SEPTEMBER 6, 1977, to JANUARY 13, 1978. First semester basic science courses.

JANUARY 16, 1978, to JUNE 9, 1978. Second semester basic science courses.

Second Through Fourth Years

SEPTEMBER, 1978, to APRIL, 1979. Introductory clinical and basic science courses.

APRIL, 1979, through APRIL, 1980. Clinical clerkships.

MAY, 1980, through APRIL, 1981. Electives.

Basic Science and Introductory Clinical Courses

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiopulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastrointestinal, Dr. Morris; Hematology, Dr. Rifkind; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Weinstein; Renal Diseases, Dr. Taggart; Surgery, Dr. Lo Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar with supporting lectures and is closely integrated with the courses in pharmacology and with *Medicine 102S – Introduction to the patient.*

Anatomy 101F. Microscopic anatomy
Drs. Gershon, Hollyfield, Nunez, Pfenninger, and Tennyson.
Lectures, conferences, and laboratory dealing with light and electron microscopic studies of structure in relation to function. Includes histogenesis.

Anatomy 102F. Systematic human anatomy
Drs. Moss, April, Brandt, Ely, Moss-Salentijn, and Noback.
Lectures, conferences, and laboratory on the functional anatomy of the human body and its development.

Anatomy 103F. Developmental biology
Dr. Moss-Salentijn and invited lecturers.
Lectures, demonstrations, and laboratory.

Biochemistry 101F. Introductory biochemistry
The departmental staff.

Genetics 101S.
Dr. Krooth and associates.

Human Growth, Development, and Nutrition 101S.
Dr. Brasel and associates.

Medicine 102S. Introduction to the patient
Dr. Aranow and associates.
Includes physical diagnosis as well as patient approach.

Microbiology 101F. Bacterial and mammalian cells
The departmental staff.

Microbiology 102S. Pathogenic organisms
The departmental staff.

Neural Science 101S.
Drs. Kandel, Kelly, Kupfermann, Rowland, Schwartz, and Spencer.

Pathology 101F. General and special pathology
Dr. King and the departmental staff.

Pathology 102S. Neuropathology
Dr. Duffy.

Pharmacology 101S. General and special pharmacology
The departmental staff.

Physician-Patient Relationship 101F.
Drs. Hembree and Rosenberg.

Physiology 101F. Human physiology
The departmental staff.

Psychiatry 101FS. Human behavior
Dr. Altshuler and the departmental faculty.

Public Health 101S. Parasitic diseases
Dr. Katz and staff.
Human diseases caused by the protozoa, helminths, and arthropods.

Public Health 102F. Epidemiology
Dr. Susser and staff.

Major Clinical Year

Anesthesiology 201. Practical anesthesiology and seminars
Dr. Bendixen and staff.

Dermatology 201. Dermatology and syphilology
Drs. Harber, Sanders, and Young, and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Morris and staff.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at either Harlem, Roosevelt, or St. Luke's Hospital, to develop the basic skills of history taking, physical examination, and interpretation of laboratory data into an integrated approach to clinical medicine.

Neurology 201. Ward clinical clerkship in neurology
Dr. Rowland and the staff at the Neurological Institute.

Neurology 202. Neurosurgery
The departmental staff.
Included in neurology clerkship.

Obstetrics and Gynecology 201. Clinical clerkship in theory and practice of obstetrics and gynecology
The departmental staff.
Includes anatomy and physiology of the pelvic organs, pregnancy and the mechanisms of normal labor, complications of pregnancy, and the diagnosis and management of gynecological disorders.

Ophthalmology 201. Practical instruction in ophthalmology
The departmental staff. At Vanderbilt Clinic and the Eye Institute.

Orthopedic Surgery 201. Practical instruction in orthopedics, including fractures and dislocations
The departmental staff.

Otolaryngology 201. Practical instruction in the diseases of the ear, nose, and throat
The departmental staff. At Vanderbilt Clinic.

Pediatrics 201. Introduction to pediatrics: clinical clerkship
Dr. Katz and staff.
Includes the study of diseases of infants and children; their growth and development and maintenance of their health.

Psychiatry 201. Clerkship in psychiatry
Drs. Altshuler and Yudofsky, and the clinical faculty. At New York State Psychiatric Institute, Presbyterian, Harlem, Roosevelt, and St. Luke's Hospitals.

Public Health 201. Clerkship in public health and community medicine
Dr. Rosenberg and staff.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Downey and staff.

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff.

Surgery 202. Lectures and demonstrations in surgical pathology
Dr. Lattes and staff.

Urology 201. Practical instruction and clinical clerkships in urology
Dr. Lattimer and staff.

Electives (12 Months)

A wide selection is possible in virtually every department, on the University campus and elsewhere, in any of the following categories: combined basic science – clinical electives, advanced clerkships, additional clinical electives, courses in a variety of disciplines, and research programs. Students, with the counsel of their advisers, may select many different electives or focus on one or more areas. Among popular programs are subinternships in the major disciplines; added experience in the clinical specialties; involvement in such fields as trauma, emergency care, comprehensive ambulatory care, metabolism and endocrinology, cardiology, infectious diseases, respiratory problems, public health and community projects, drug abuse and alcoholism, hematology, oncology, kidney disease, radiology, and many others. An elective in medicine in the tropics is available to fourth-year students, who take part in the activities in university or government health centers in Central and South America, Africa, or Asia.

Summary of Studies (in Hours)

Basic Science

	HOURS
Abnormal Human Biology 101S	244
Anatomy 101F	96
Anatomy 102F	155
Anatomy 103F	12
Biochemistry 101F	115
Genetics 101S	16
Human Growth, Development, and Nutrition 101S	24
Medicine 102S	141
Microbiology 101F	102
Microbiology 102S	40

	HOURS
Neural Science 101S	89
Pathology 101F	161
Pathology 102S	21
Pharmacology 101S	106
Physician – Patient Relationship 101F	33
Physiology 101F	118
Psychiatry 101FS	102
Public Health 101S	36
Public Health 102F	15
TOTAL	1,626

Major Clinical Year

	HOURS
Anesthesiology 201	64
Dermatology 201	17
Medicine 201	384
Neurology 201 – 202	192
Obstetrics and Gynecology 201	192
Ophthalmology 201	18
Orthopedic Surgery 201	64
Otolaryngology 201	18
Pediatrics 201	192

	HOURS
Psychiatry 201	130
Public Health 201	62
Radiology 201	11
Radiology 202	11
Rehabilitation Medicine 201	10
Surgery 201	156
Surgery 202	36
Urology 201	64
TOTAL	1,621

Special Programs

M.D. – Ph.D. Program

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain the Ph.D. degree

in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program.

Applicants interested in the M.D. – Ph.D. program should write for further information and application forms to:

Dr. Lowell M. Greenbaum
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Pharmacology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

Programs in Physical Therapy and Occupational Therapy

Educational programs leading to the Bachelor of Science degree in occupational therapy or physical therapy are offered by the Department of Rehabilitation Medicine to students with a background of two years of college; the programs are approximately two years in length. Students who have already earned a bachelor's degree may apply for admission to a one-year program leading to a professional certificate in physical therapy or to a two-year program leading to the Master of Science degree in occupational therapy. Details are given in the University bulletin, *Programs in Physical Therapy and Occupational Therapy*.

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a Certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and preferably a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program Subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or its equivalent, and demonstrated scholarly ability in pursuing

advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director of the Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Clinical Genetics

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Committee on Clinical Genetic Services, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this Committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics, sponsored and directed by the Committee, offers clinical fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Committee on Clinical Genetic Services, Department of Human Genetics and Development, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

University Program of General Education

The Program of General Education offers a series of courses designed to bring together various scholarly and professional disciplines to explore matters of lasting human concern and distinct contemporary importance. The Program includes both experimental and time-tested forms of general education. As an outgrowth of Columbia's long experience in this area, the Program is based on the premise that general education can parallel disciplinary training in the graduate as well as undergraduate years. The Program offers intermediate and advanced courses that supplement such general introductions as Contemporary Civilization, Humanities A and B, Oriental Civilizations, and Oriental Humanities.

The Program's courses and seminars are addressed to both the nonspecialist and the specialist who is willing to venture beyond the conventional disciplinary boundaries. Within the

normal limits of appropriate class size, and depending upon the level of the course, most courses are open to qualified students from all divisions of the University. Students should check with their department or school if there are questions about receiving credit toward a major or a degree.

A complete listing of courses offered under the Program will be published as a supplement to the University bulletins in the late summer of 1977. It will include courses not otherwise announced in the bulletins. For information, contact the General Education Program, 1513 International Affairs Building, Columbia University, New York, N.Y. 10027. Telephone: (212) 280-2208.

During the 1977 – 1978 academic year, the Health Sciences Division of the University will conduct a General Education Seminar on the interdisciplinary analysis and explication of value issues in health sciences education, research, and service as related to behavior modification, neonatology, reproductive medicine, and survival and dying. Seminars in each of these topics meet in the autumn and spring terms, and are open to students from any division of the University with permission of a faculty participant. For information, call the course director, Bernard Schoenberg, M.D. (694 – 4194), or the General Education Office (280 – 2208).

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881 – 1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother, and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the alumnus of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be most meritorious.

Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes three major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with his or her specialty. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia Presbyterian Medical Center and the other affiliated hospitals. No University credit or certificates are granted for these courses.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

Departments of Instruction

Listed are only those faculty appointments and promotions approved by May 15, 1977.

The designation "also" is used with the name of an individual holding a joint appointment in two departments. The name appears in both departmental listings.

The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in."

Anatomy

Professor and Chairman

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

Professors

Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*
Sid Gilman (Merritt Professor). *B.A., California (Los Angeles), 1954; M.D., 1957*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
Virginia Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Associate Professors

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Karl H. Pfenninger. *M.D., Zurich, 1971*

Associate Professor of Clinical Pathology

Arline D. Deitch. *B.A., Brooklyn, 1944; M.A., Columbia, 1946; M.D., 1954*

Adjunct Associate Professor

Richard M. Hoar. *A.B., Dartmouth, 1950; Ph.D., University of Kansas, 1956*

Assistant Professors

James P. Kelly. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Mary M. L. Lee. *B.A., Hunter, 1963; M.S., Michigan, 1964; Ph.D., Columbia, 1972*
Daniel M. Linkie (in Obstetrics and Gynecology). *B.S., State University of New York (Downstate), 1962; M.S., State University of New York (Albany), 1963; Ph.D., Michigan, 1971*
John J. Rasweiler IV. *B.A., Colgate, 1965; Ph.D., Cornell, 1970*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*

RESEARCH ASSOCIATE
Taube Pearl Rothman, Ph.D.

SENIOR STAFF ASSOCIATES
Julia R. Currie, Ph.D.
Alan R. Gintzler, Ph.D.

STAFF ASSOCIATE
Cheryl F. Dreyfus, Ph.D.

SPECIAL LECTURER
Frederic J. Agate, Jr., Ph.D.

Anesthesiology

Professor and Chairman

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

Professors

Mieczyslaw Finster. *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (also Pharmacology). *M.B., National Central (Nanking), 1944*
Herbert Rackow. *B.S., Pennsylvania State, 1939; M.D., Howard, 1946*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Jacob S. Israel. *B.A., Columbia, 1945; M.D., New York University, 1949*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Associate Professors

Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Allen I. Hyman (also Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Associate Professor of Clinical Anesthesiology

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

Assistant Professors

Richard Y. Z. Chen. *M.D., National Taiwan, 1966*
Arthur Donald Fink. *B.S., Lafayette College, 1968; M.D., Columbia, 1972*
Yakub M. Gangat. *B.S., Bombay, 1961; M.D.,* Gujarat, *1967*

Paul F. Hoar. *B.A., Merrimack, 1964; Ph.D., Vermont, 1970; M.D., 1971*
John A. Holzer. *B.A., University of California, 1968; M.D., 1972*
Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Norman M. Mazza. *B.E.E., Rensselaer Polytechnic Institute, 1964; M.D., New York Medical College, 1972*
Leila M. Pang (also Pediatrics). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1964*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Yvonne Vulliemoz. *M.S., University of Lausanne, 1956; Ph.D., University of Paris, 1969*
Jen-Tieng Wung. *M.D., Taipei Medical College, 1966*

Assistant Professors of Clinical Anesthesiology

Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Kathryn A. W. Cozine. *M.D., Johns Hopkins, 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
Patricia Wolcott Hartwell. *B.A., Northwestern, 1967; M.D., Columbia, 1971*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
Marlise A. Ogilvie-Meier. *B.S., Lausanne, 1963; M.D., Zurich, 1969*
Medhat Riad Wassef. *M.B., B.Ch., Cairo, 1957*
Anthony E. Wicks. *M.B., B.S., Ceylon, 1961; M.D., 1966*
Joseph C-S. Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

RESEARCH ASSOCIATES
Salha S. Daniel, Ph.D.
Mariagnes Verosky, B.A.

STAFF ASSOCIATES
Jacques Banchereau, D. Pharm.
Carol Pantuck, B.A.

At Mary Imogene Bassett Hospital

Assistant Clinical Professors

Robert Forest Bedford. *B.A., Princeton, 1964; M.D., Cornell, 1968*
William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

At Harlem Hospital

Associate Professor of Clinical Anesthesiology

Herbert G. Cave. *M.D., Howard, 1947*

Assistant Professors of Clinical Anesthesiology

Elmer S. Foster. *B.S., College of the City of New York, 1952; M.D., Brussels, 1959*
Jean B. M. Gilot. *B.S., Lycee Jamel (Haiti), 1952; M.D., Medical School of Haiti, 1958*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Stephanie Shich. *M.D., University of Josef Pilsudski, 1937*
William M. Smith. *B.A., Michigan, 1954; M.D., University of Zurich, 1966*

Madisetti Swamy. *M.B., B.S., Osmania (India), 1954*
J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1960*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

Assistant Clinical Professors

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

At Overlook Hospital

Assistant Clinical Professors

Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*
Mary Louise White. *B.S., Maryland, 1943; M.D., 1945*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Sami A. M. Abadir, M.D.
Jane deV. Stark, M.D.
Carol E. Zimmerman, M.D.

At Roosevelt Hospital

Assistant Professor of Clinical Anesthesiology

Marcelle Monica Willock. *B.A., New Rochelle, 1958; M.D., Howard, 1963*

Assistant Clinical Professors

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Professors of Clinical Medicine

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SPECIAL LECTURER IN BIOCHEMISTRY
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Karl E. Nelson, M.S.
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Donna O'Hare, M.D.
Jean Pakter, M.D.
Olive E. Pitkin, M.D.
David A. Reed, M.S.
Peter Rogatz, M.D.
Arnold E. Rosenblum, J.D.
Hana Rostain, M.D.
Maurice V. Russell, Ed.D.
Melvin S. Schwartz, M.D.

LECTURERS (*continued*)
Sam Shapiro, B.S.
Joseph Sherber, M.S.
Elliot J. Simon, M.S.
Betty Simons, M.D., M.P.H.
Joseph E. Snyder, M.D.

LECTURERS (*continued*)
Richard A. Stolnacke, M.S.
Thomas J. G. Tighe, Jr., M.P.H.
Andre A. O. Varma, M.D.

SPECIAL LECTURERS
Leonard J. Goldwater, M.D.
Beatrice Mintz, M.D., M.P.H.
W. Henry Sebrell, M.D.
Samuel M. Wishik, M.D., M.P.H.

Radiology

Professor and Chairman

William B. Seaman. *M.D., Harvard, 1941*

At Presbyterian Hospital

Professors

David H. Baker. *M.D., Boston, 1951*
Walter E. Berdon. *B.A., Syracuse, 1950; M.D., 1955*
Chu Huai Chang. *M.D., St. John's (Shanghai), 1944*
Kent Ellis. *M.D., Yale, 1950*
Eric Hall (Physics). *Ph.D., Iriel (Oxford), 1962*
Sadek Hilal. *M.D., Cairo, 1955*
Philip M. Johnson. *B.A., Dartmouth, 1948; M.D., Columbia, 1951*
Harald H. Rossi (Physics). *Ph.D., Johns Hopkins, 1942*

Professors of Clinical Radiology

Frieda Feldman. *B.A., New York University, 1953; M.D., 1957*
Donald L. King. *B.A., Stanford, 1956; M.D., Columbia, 1960*
Guy D. Potter. *B.S., Chicago, 1957; M.D., 1960*
Ralph Schlaeger. *B.S., Wisconsin, 1942; M.D., 1945*

Adjunct Professors

Victor P. Bond. *B.A., California (Berkeley), 1943; M.D., California (San Francisco), 1945; Ph.D., California (Berkeley), 1952*
Thomas P. Vogl (Radiation Biophysics). *B.A., Columbia, 1952; M.S., Pittsburgh, 1957; Ph.D., Carnegie-Mellon, 1969*

Associate Professor of Clinical Pathology

Carmia Borek. *B.S., M.S., Ph.D., Weizman Institute (Israel), 1967*

Associate Professors of Clinical Radiology

Thane Asch. *B.A., Columbia, 1951; M.D., Cornell, 1955*
John H. Austin. *B.A., Harvard, 1961; M.D., Yale, 1965*
William J. Casarella. *B.A., Yale, 1959; M.D., Harvard, 1963*
Patricia Tretter. *B.A., Marquette, 1944; M.D., 1949*

Adjunct Associate Professor

Lawrence A. Shepp. *B.S., Brooklyn Polytechnic Institute, 1958; M.A., Princeton, 1960; Ph.D., 1960*

Associate Clinical Professors

Arnold L. Bachman. *B.S., New York University, 1931; M.D., 1934*
Kevin L. Macken. *M.D., National (Ireland), 1947*
Paul Sane. *M.D., Bucharest, 1950*

Assistant Professor

Charles R. Geard (Radiological Research). *Ph.D., Australian National University, 1973*

Assistant Professors of Clinical Radiology

George F. Ascherl. *B.A., Queens, 1966; M.D., St. Louis, 1970*
Donald M. Bachman. *B.A., Columbia, 1965; M.D., 1969*
Gregory M. Carsen. *B.A., Oberlin, 1965; M.D., State University of New York (Downstate), 1969*
Peter D. Esser (Radiation Biophysics). *B.A., Brown, 1961; M.S., Adelphi, 1964; Ph.D., 1971*
Rashid Fawwaz. *M.D., American (Beirut), 1960; Ph.D., California (Berkeley), 1968*
David A. Follett. *B.A., Harvard, 1959; M.D., Tufts, 1964*
Sundara R. Ganti. *M.B.B.S., M.D., Guntur Medical College (India), 1967*
Richard P. Gold. *B.A., Tufts, 1965; M.D., 1969*
Leonidis Harasiadis. *M.D., National (Athens), 1966*
Peter Joseph (Radiation Biophysics). *B.S., Lafayette, 1959; Ph.D., Harvard, 1961*
Patricia Kaim. *B.S., Western Kentucky, 1955; M.D., Louisiana, 1966*
Nikitis D. Kessaris (Radiation Biophysics). *B.A., Emory, 1952; M.S., Harvard, 1953; Ph.D., 1966*
James A. Reilly. *M.D., Columbia, 1947*
Leonard Rosenstein (Radiation Biophysics). *B.S., Columbia, 1967; Ph.D., 1972*
Duk Il Sung. *B.A., Kyungbuk National (Korea), 1964; M.D., 1968*
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Assistant Clinical Professors

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William M. Griffin. *B.S., Notre Dame, 1958; M.D., State University of New York (Upstate), 1962*
Harvey L. Hecht. *A.B., Amherst, 1958; M.D., Albert Einstein, 1962*
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Andrew A. Kosiara, Ph.D. (Radiation Biophysics)
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INSTRUCTORS IN CLINICAL RADIOLOGY
Chomyong K. Charoenkul, M.D.
Henry J. Fischer, M.D.
Sundra R. Ganti, M.D.
William Griffin, M.D.
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Sharon M. Kreps
Jerome Krieger, M.D.
Robert Rottenberg, M.D.
Ellen W. Slater, M.D.
Richard N. Spiegel, M.D.
William Stiehm, M.D.

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Assistant Clinical Professor

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Associate Clinical Professor

Theodore R. Stent. *B.A., Talladega, 1944; M.D., Meharry, 1948*

Assistant Professors of Clinical Radiology

Jeanne Armstrong. *B.A., Mount Holyoke, 1948; M.D., Columbia, 1952*
Christopher A. Johnson. *B.A., Howard, 1943; M.D., 1947*
Laurencia B. Regalado. *M.D., Santo Tomas (Philippines), 1957*
Headley Scott. *B.S., College of the City of New York, 1941; M.D., Howard, 1944*

Assistant Clinical Professors

Yuthana Samroengraja. *M.D., Chulalongkorn Hospital Medical School, 1965*
Abdulhamid R. Vazir. *M.D., Bombay, 1942*

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Mohammad Muqtadir, M.D.

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Associate Clinical Professor

Albert A. Dunn. *M.D., Cornell, 1943*

Assistant Clinical Professors

David S. Marsden. *Ph.D., Jefferson, 1968*
George Stassa. *B.A., Columbia, 1956; M.D., 1960*
Harold L. Stitt. *B.A., Colorado, 1953; M.D., 1957*

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Andre Abitbol, M.D.
Carmel N. Donovan, M.D.
Pierre-Alix Haspil, M.D.
Cynthia Lehr, M.D.
Hi-Jung Pyun, M.D.

INSTRUCTORS (*continued*)
Sabino J. Rizzo, M.D.
Kenneth T. Rogers, D.O.
Theodora Serban, M.D.
Peter K. Yeung, M.D.

At St. Luke's Hospital

Professors of Clinical Radiology

Nathaniel Finby. *B.A., Johns Hopkins, 1938; M.D., 1942*
Richard D. Kittredge. *B.A., New York University, 1950; M.D., 1954*

Clinical Professors

Kuo-York Chynn. *B.S., National Tung-Chi (Shanghai), 1945; M.D., 1949; M.S., St. Louis, 1954*
Virginia Kanick. *B.A., Barnard, 1947; M.D., Columbia, 1951*

Associate Clinical Professors

John T. Hsu. *M.D., National Defense (Taiwan), 1957*
Leonard M. Liegner. *B.A., New York University, 1941; M.D., 1944*

Assistant Professors of Clinical Radiology

William I. Shaw. *B.A., Washington and Jefferson, 1958; M.D., Pittsburgh, 1962*
Efthimios C. Spyropoulos. *M.D., Athens, 1948*

Assistant Clinical Professors

Ina A. Altman. *B.S., Brooklyn, 1956; M.D., Woman's Medical College of Pennsylvania, 1960*
Frank M. Dain. *B.A., Dartmouth, 1945; M.D., Columbia, 1945*
Mary Ann Radkowski. *B.A., Notre Dame College of Staten Island, 1960; M.D., Seton Hall, 1964*

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Carol L. Hilfer, M.D.
Robert A. Phillips, M.D.
Susan M. Tuck, M.D.

STAFF ASSOCIATE
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Rehabilitation Medicine

Simon Baruch Professor and Chairman

John A. Downey. *M.D., Manitoba, 1954; D.Phil., Christ Church (Oxford), 1962*

At Presbyterian Hospital

Associate Professor of Clinical Rehabilitation Medicine

Stanley J. Myers. *B.A., New York University, 1957; M.D., State University of New York (Downstate), 1961*

Assistant Professor

Erwin G. Gonzalez. *B.A., Santo Tomas (Manila), 1962; M.D., 1967*

Assistant Professors of Clinical Rehabilitation Medicine

Caroline O. McCagg. *B.A., Barnard, 1962; M.D., Yale, 1966*
Naomi L. Turner. *B.A., San Francisco Xavier (Bolivia), 1948; M.D., 1956*

Assistant Clinical Professors

Antonio Cocchiarella. *M.D., Bari (Italy), 1953*
Damyanti G. Moorjani (also Pediatrics). *B.S., Bombay, 1953; M.D., Grant (Bombay), 1957*

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE
Alfred Hess, D.O.
Danuta Janiszewski, M.D.
Vivienne Katz, M.A.
I. Antoinette Sutherland, M.D.

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Professor of Clinical Rehabilitation Medicine

Albert D. Anderson. *B.A., Columbia, 1948; M.D., Harvard, 1952*

Associate Professor of Clinical Rehabilitation Medicine

Herbert L. Thornhill. *B.S., Pittsburgh, 1951; M.D., Howard, 1955*

Associate Clinical Professor

Yasoma B. Challenor. *B.A., Hunter, 1959; M.D., State University of New York (Downstate), 1963*

Assistant Professor of Clinical Rehabilitation Medicine

Lucille C. Gunning (Pediatrics). *B.A., New York University, 1945; M.D., Woman's Medical College of Pennsylvania, 1949*

Assistant Clinical Professor

Roy H. Brown. *B.S., Fordham, 1949; M.D., Zurich, 1955*

INSTRUCTOR IN CLINICAL REHABILITATION MEDICINE
Wanda Brodzka, M.A.
Cecelia Macauley, M.A.
Louise Weiss, M.A.

INSTRUCTOR IN CLINICAL PHYSICAL THERAPY
Joseph A. Malloy, M.A.

At Helen Hayes Hospital

Assistant Clinical Professor

Rodolfo L. Reyes. *M.D., Santo Tomas (Philippines), 1952*

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Sally Wisely, M.D.

At Roosevelt Hospital

ASSOCIATE IN CLINICAL REHABILITATION MEDICINE
Ahmad M. Shalaby, M.D.

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Associate Clinical Professor

Shyh-Jong Yue. *M.D., National College of Medicine (Shanghai), 1938*

Assistant Clinical Professor

Lucille T. Pai. *M.D., Woman's Christian Medical College (Shanghai), 1941*

INSTRUCTOR IN CLINICAL REHABILITATION MEDICINE
Ravi Raj Malpe, M.B., B.S.

Occupational Therapy

Professor

Marie Louise Franciscus (*director of program*). *O.T.R., Philadelphia School of Occupational Therapy, 1937; B.S., Ohio State, 1947; M.A., Columbia, 1956*

Assistant Professors

Cynthia B. Hughes (*associate director of program*). *B.S., Illinois, 1969; M.E., 1973*
Barbara Neuhaus. *B.A., Keuka, 1950; M.A., Columbia, 1960*

Assistant Clinical Professor

Karen F. B. Diasio. *B.S., Columbia, 1959; M.A., 1967*

ASSOCIATES IN CLINICAL OCCUPATIONAL THERAPY
Margaret F. Brown, B.S.
Nedra P. Gillette, B.S.
Eleanor V. Shelly, B.S.
Robert Stone, M.S.

INSTRUCTORS IN CLINICAL OCCUPATIONAL THERAPY
Cheryl Colangelo, B.S.
Adele G. Edward, M.S.
Margarita Cochran Klug, B.S.
A. Gloria Goldberg Hershman, B.S.
Carol A. Shaw, B.A., M.A.
Alice R. Trei, B.S.

Physical Therapy

Professor

Mary E. Callahan (*director of program*). *R.N., Clinton Hospital, 1937; R.P.T., Posse College, 1940; B.S., New York University, 1950; M.A., Columbia, 1955*

Associate Professors

Ruth Dickinson (*associate director of program*). *B.S., Russell Sage, 1944; M.A., Columbia, 1947*

Althea M. Jones. *B.S., Panzer College of Physical Education, 1944; M.A., Columbia, 1972*

Assistant Professor

Bernadette Hecox. *B.S., Columbia, 1968; M.A., 1973*

ASSOCIATES IN CLINICAL PHYSICAL THERAPY

Theodore Corbitt, M.A.
Patricia Sullivan, M.A.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY

Margaret Beyda, B.S.

INSTRUCTORS (*continued*)

Carroll Anne Catherine Grecē, B.S.
Judith R. Hogan, B.S.
Marilyn Lister, B.S.
Marion Marx, M.A.
Georgia Nesbit Riedel, B.S.

Surgery

Valentine Mott Professor and Johnson & Johnson Distinguished Professor and Chairman

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

At Presbyterian Hospital

Professors

Jose M. Ferrer. *B.A., Princeton, 1934; M.D., Columbia, 1938*
Frank Gump. *B.A., Harvard, 1951; M.D., New York University, 1955*
David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*
Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
Robert B. Hiatt. *B.S., Wilmington, 1938; M.D., Cincinnati, 1942*
Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
John B. Price, Jr. *M.A., Texas, 1948; M.D., Johns Hopkins, 1950*
Thomas V. Santulli. *B.S., Columbia, 1935; M.D., Georgetown, 1939*

Professor of Surgical Pathology

Raffaele Lattes. *M.D., Turin, 1933; Med.Sc.D., Columbia, 1946*

Professors of Clinical Surgery

Harold G. Barker. *B.A., Utah, 1939; M.D., Pennsylvania, 1943*
Bard Cosman. *B.A., Columbia, 1952; M.D., 1955*
George F. Crikelair. *B.A., Wisconsin, 1941; M.D., 1944*
Ferdinand F. McAllister. *B.A., Dartmouth, 1934; M.D., Harvard, 1939*
James R. Malm. *B.A., Princeton, 1949; M.D., Columbia, 1949*
Arthur B. Voorhees, Jr. *B.A., Virginia, 1943; M.D., Columbia, 1946*

Associate Professor

Mark A. Hardy. *B.A., Columbia, 1958; M.D., Albert Einstein, 1962*

Associate Professor of Pathology

Nicole Suciu-Foca. *B.S., Bucharest (Rumania), 1959; M.S., 1960; Ph.D., 1965*

Associate Professors of Clinical Surgery

Frederick O. Bowman. *B.A., North Carolina, 1948; M.D., Pennsylvania, 1952*
Joseph A. Buda. *B.A., Columbia, 1951; M.D., Cornell, 1955*
Carl R. Feind. *B.A., Texas, 1940; M.D., Columbia, 1950*
Alfred M. Markowitz *B.A., New York University, 1948; M.D., Washington (St. Louis), 1952*
Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*
Francis C. Symonds. *B.A., Princeton, 1947; M.D., Columbia, 1951*
Bashir Ahmad Zikria. *B.S., George Washington, 1954; M.D., Johns Hopkins, 1958*

Associate Clinical Professors

Hugh Auchincloss, Jr. *B.A., Yale, 1938; M.D., Columbia, 1942*
Charles W. Findlay. *B.A., Yale, 1939; M.D., Columbia, 1943*
Kenneth Forde. *B.S., College of the City of New York, 1954; M.D., Columbia, 1959*
Alfred Jaretzki III. *B.A., Harvard, 1941; M.D., 1944*
David M. Ju. *M.D., National Medical College (Shanghai), 1944; Med.Sc.D., Columbia, 1954*
Sven Kister. *B.A., Dartmouth, 1955; M.D., Harvard, 1958*
John N. Schullinger. *B.A., Princeton, 1951; M.D., Columbia, 1955*
Philip D. Wiedel. *B.S., Cannes (France), 1934; B.A., Columbia, 1938; M.D., 1941*

Senior Research Associates

John R. Broell (Chemical Engineering and Applied Chemistry). *B.S., Seattle, 1958; M.S., Columbia, 1960*
William H. Dobelle. *B.A., Johns Hopkins, 1964; M.A., 1967; Ph.D., Utah, 1974*
David Elwyn (Biochemistry). *B.A., Columbia, 1941; Ph.D., 1950*

Assistant Professors

David Bregman. *B.A., New York University, 1961; M.D., State University of New York (Downstate), 1965*
Richard N. Edie. *B.A., Princeton, 1959; M.D., Columbia, 1965*
Paul Lo Gerfo. *B.S., Rensselaer Polytechnic Institute, 1961; M.S., 1963; M.D., State University of New York (Upstate), 1967*
Henry M. Spotnitz. *B.A., Harvard, 1962; M.D., Columbia, 1966*

Assistant Professor of Biochemistry

Irving Goodman. *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*

Assistant Professors of Clinical Surgery

Robert G. Bertsch. *B.A., Carleton, 1953; M.D., Columbia, 1957*
Shivaji B. Bhonslay, Jr. *M.D., American (Beirut), 1944*

Assistant Clinical Professor

Paul H. Gerst. *B.A., Columbia, 1948; M.D., 1952*

ASSOCIATES IN CLINICAL SURGERY
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RESEARCH ASSOCIATES
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Shanta M. Modak, M.D.
Ben T. Sandler, M.D.

INSTRUCTORS IN CLINICAL SURGERY
Vincent W. Ansanelli, M.D.
Alfred A. Azzoni, M.D.
Robert G. Blabey, M.D.
Harold M. Bruck, M.D.
Sherman M. Bull, M.D.
Charles A. Slanetz, M.D.
Phillip W. Thieman, M.D.
James S. Todd, M.D.

SENIOR STAFF ASSOCIATE
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Eduardo N. Parodi, M.D.

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SPECIAL LECTURER
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At Mary Imogene Bassett Hospital

Professor of Clinical Surgery

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Associate Clinical Professors

Rodman D. Carter (in Urology). *B.A., Harvard, 1950; M.D., Columbia, 1954*
John E. Olson. *B.A., Kansas, 1953; M.D., 1956*

Assistant Clinical Professors

Thomas P. Ashford. *B.A., Willamette, 1947; M.S., Oregon, 1951; M.D., 1953*
Edward J. Carey, Jr. *B.A., Harvard, 1954; M.D., Cornell, 1958*
Roger W. MacMillan, Jr. *B.S., Trinity, 1961; M.D., Columbia, 1965*

At Harlem Hospital

Associate Professor of Clinical Surgery

Harold P. Freeman. *B.A., Catholic, 1954; M.D., Howard, 1958*

Associate Clinical Professors

John E. Hutchinson. *B.S., Morehouse, 1953; M.D., Meharry, 1957*
Robert F. Morton. *M.D., Meharry, 1944*
John W. Parker, Jr. *B.A., Fisk, 1942; M.D., Meharry, 1945*
Eugene Quash. *B.S., College of the City of New York, 1943; M.D., Howard, 1946*

Assistant Professor of Clinical Surgery

Barbara Barlow. *B.A., New York University, 1946; D.D.S., Columbia, 1950; M.D., 1953*

Assistant Clinical Professors

Salvatore G. Cinque. *B.S., College of the City of New York, 1943; M.D., Loyola, 1946*
Arthur L. Garnes. *B.S., College of the City of New York, 1933; M.D., Howard, 1937*
James A. C. Norris. *B.A., Hampton Institute, 1953; M.D., Case Western Reserve, 1957*
Ruben Oropeza. *B.S., Mexico, 1948; M.D., 1955*
Carlton E. Patrick. *M.D., Saar (Hamburg, Germany), 1957*

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Lowyd W. R. Ballantyne, Jr., M.D.
Matthew D. Branche, M.D.
E. Foster Conklin, M.D.
Selden Dickinson, M.D.
Urbano K. Guarin, M.D.
Malcolm Moley, M.D.
Vincent Porter, M.D.
Lawrence E. Taylor, M.D.

ASSOCIATES (*continued*)
Irving J. Thorne, M.D.
Pierre G. Van Bockstaele, M.D.

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Eustace E. Corbin, M.D.
Egel Francois, M.D.
Ganepola A. Ganepola, M.D.

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Edoardo Giuliani, M.D.
Avtar S. Josen, M.D.
Barnett Miller, M.D.
H. Carl Moultrie II, M.D.
Ranbir Singh, M.D.
Max Yergan, Jr., M.D.

ASSISTANT IN CLINICAL NEUROSURGERY
Michael Rapak, M.D.

At Overlook Hospital

Associate Clinical Professor

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Assistant Clinical Professors

David Befeler. *B.A., Columbia, 1955; M.D., 1959*
Robert Specht. *B.A., Princeton, 1944; M.D., Columbia, 1946*

ASSOCIATES IN CLINICAL SURGERY
John H. Cooper, M.D.
Douglas M. Costabile, M.D.
Victor D'Ambrosio, M.D.
John Joseph Hudock, M.D.
Frank E. Kaiser, M.D.
Robert E. Knapp, M.D.
Daniel L. Moore, M.D.

ASSOCIATES (*continued*)
Saverio J. Panzarino, M.D.
Morton Perkoff, M.D.
Lester Silver, M.D.
Jerome Spivack, M.D.
John V. Triolo, M.D.
E. Bruce Whitesell, M.D.
Charles J. Wittmann, Jr., M.D.

At Roosevelt Hospital

Professor of Clinical Surgery

Walter Wichern. *B.S., Mount Union, 1942; M.D., Harvard, 1945*

Associate Clinical Professors

William H. Cassebaum. *B.A., Cornell, 1927; M.D., 1931*
Richard G. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Joseph Ford. *B.A., Harvard, 1942; M.D., Columbia, 1945*

Charles C. Harrold, Jr. *B.S., Georgia, 1937; M.D., Harvard, 1941*
Adrian Lambert, Jr. *B.A., Yale, 1930; M.D., Columbia, 1934*
J. William Littler. *M.D., Duke, 1942*
Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Thomas S. Royster. *B.A., North Carolina, 1940; M.D., Pennsylvania, 1943*

Assistant Clinical Professors

H. Clay Alexander. *B.A., Yale, 1956; M.D., Cornell, 1961*
John T. Brennan, Jr. *M.D., Harvard, 1950*
David M. Carberry. *Ph.B., Providence, 1947; M.D., Jefferson, 1951*
Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
William V. Healey, Jr. *B.A., Princeton, 1952; M.D., Columbia, 1956*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
T. Scudder Winslow. *B.A., Princeton, 1938; M.D., Cornell, 1942*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

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Clarence A. Dunn, Jr., M.D.
Richard A. Marks, M.D.
Walter H. Stingle, M.D.

At St. Luke's Hospital

Professors of Surgery

Hugh F. Fitzpatrick (Clark Professor). *B.S., Creighton, 1942; M.D., 1943*
James Clarence Pierce (Ailsa Mellon Bruce Professor). *B.A., Carleton, 1951; M.D., Harvard, 1955*

Professor of Clinical Surgery

Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*

Associate Professor of Microbiology

George A. Hashim. *Ph.D., Columbia, 1967*

Associate Clinical Professors

W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*
Robert E. McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

Assistant Clinical Professors

Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Robert T. Fraser. *B.A., Dartmouth, 1931; M.D., Columbia, 1934*
George E. Green. *B.S., Yale, 1952; M.D., 1965*

Conrad G. Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
Haroutune A. Mekhjian. *B.S., American (Beirut), 1961; M.D., 1965*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*

INSTRUCTORS IN CLINICAL SURGERY

Charles R. Blair, M.D.
Peter B. Cinelli, M.D.
Clayton R. De Haan, M.D.
Peter B. Fodor, M.D.
Philip E. Gordon, M.D.

INSTRUCTORS *(continued)*

Leif O. Holgersen, M.D.
Joshua M. Kaplan, M.D.
Danne R. Lorieo, M.D.
Paul I. Tomljanovich, M.D.
Hiroshi Washio, M.D.

Urology

Professor and Chairman

John K. Lattimer. *B.A., Columbia, 1935; M.D., 1938; Med.Sc.D., 1943*

At Presbyterian Hospital

Professor of Clinical Urology

Ralph J. Veenema. *B.A., Calvin, 1942; M.D., Jefferson, 1945*

Associate Professor of Clinical Pathology

Myron Tannenbaum. *B.A., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

Associate Professor of Clinical Urology

Aurelio Uson. *M.D., Barcelona (Spain), 1950*

Associate Clinical Professors

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Assistant Professor of Clinical Pathology

Phillip Tomashefsky. *Ph.D., New York University, 1969*

Assistant Professors of Clinical Urology

John D. Birkhoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

Assistant Clinical Professors

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*

ASSOCIATE IN CLINICAL UROLOGY
Charles E. Umhey, Jr., M.D.

RESEARCH ASSOCIATE
Stanford Pulrang, M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Elliot L. Cohen, M.D.
Frederick S. Dick, M.D.
Leonard J. Rudin, M.D.
Robert R. White, M.D.

ASSISTANTS IN CLINICAL UROLOGY
John C. Byrne, M.D.
Robert L. Pickens, M.D.

SENIOR STAFF ASSOCIATE
Margaret Wilhite, M.D.

SPECIAL LECTURER
Bruno Fingerhut, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor of Surgery

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

INSTRUCTOR IN CLINICAL UROLOGY
Bruce MacDonald, M.D.

At Harlem Hospital

Assistant Clinical Professor

Harold A. Garnes. *B.S., College of the City of New York, 1944; M.D., Howard, 1951*

At Roosevelt Hospital

Associate Clinical Professor

Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert S. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

INSTRUCTOR IN CLINICAL UROLOGY
James W. Vastola, M.D.

At St. Luke's Hospital

Associate Clinical Professor

Russell W. Lavengood, Jr. *B.A., St. Joseph's (Indiana), 1947; M.D., Louisville, 1951*

Assistant Professor of Clinical Urology

Manuel Fernandes. *M.D., Coimbra (Portugal), 1956*

Assistant Clinical Professor

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

ASSOCIATE IN CLINICAL UROLOGY

Arumbi P. Subramaniam, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Philip C. Cea, M.D.
Harry S. David, M.D.
Alfred F. Fretz, M.D.
Waleed G. Maloof, M.D.
Constantine Photos, M.D.

INSTRUCTORS *(continued)*

William R. Pitts, Jr., M.D.
Joseph D. Putignano, M.D.
Alexander Sotiropoulos, M.D.
Rudolph D. Talarico, M.D.
Pellegrino J. Tozzo, M.D.

ASSISTANT IN CLINICAL UROLOGY

Abas Rezvani, M.D.

First-Year Postgraduate Appointments: Class of 1977

Aaronson, Michael J. *University Hospitals, Boston, Mass.* Medicine
Alexander, Frederick Jr. *Peter Bent Brigham Hospital, Boston, Mass.* Surgery
Arkow, Stan D. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Ascher, Elizabeth K. *The New York Hospital, New York, N.Y.* Medicine
Auchincloss, Elizabeth L. *The New York Hospital, New York, N.Y.* Psychiatry
Baker, Robert W. *The New York Hospital, New York, N.Y.* Medicine
Ballantyne, Garth H. *Presbyterian Hospital, New York, N.Y.* Surgery
Barsa, John J. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Bassett, Susan *University of Colorado Affiliated Hospitals, Denver Colo.* Obstetrics and Gynecology
Bauer, Bertha A. *New England Deaconess Hospital, Boston, Mass.* Medicine
Benson, Mitchell C. *Mount Sinai Hospital, New York, N.Y.* Surgery
Bhark, Phillip *McLean Hospital, Belmont, Mass.* Psychiatry
Bock, John E. *New York University—Veterans Administration Hospital, New York, N.Y.* Medicine
Bodkin, Cordy E. *Overlook Hospital, Summit N.J.* Flexible
Bressman, Susan B. *The New York Hospital, New York, N.Y.* Medicine
Brown, Richard P. *The New York Hospital, New York, N.Y.* Psychiatry
Buchholz, Gary D. *University of California (Irvine) Affiliated Hospitals, Irvine, Calif.* Medicine
Calabrese, Daniel A. *Overlook Hospital, Summit, N.J.* Pediatrics
Cambria, Richard P. *The Massachusetts General Hospital, Boston, Mass.* Surgery
Cervoni, Francisco M. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Chamberlain, Marc C. *Bronx Municipal Hospital Center, Bronx, N.Y.* Pediatrics
Coonley, Craig J. *United States Air Force, Lackland Air Force Base, Texas* Medicine
Coverton, Ronald W. *St. Vincent's Hospital, New York, N.Y.* Medicine
Davis, Jeffrey P. *Medical College of Wisconsin Affiliated Hospitals, Milwaukee, Wis.* Flexible
Demartini, Paul D. *Presbyterian Hospital, New York, N.Y.* Surgery
Derenoncourt, Frantz J. *St. Luke's Hospital Center, New York, N.Y.* Surgery
de Seabron-Sampson, Jas *Roosevelt Hospital, New York, N.Y.* Medicine
Dietz, Frederick R. *University of Iowa Hospitals, Iowa City, Iowa* Orthopedic Surgery
Dodds, Peter R. *Yale—New Haven Medical Center, New Haven, Conn.* Surgery
Doubilet, Peter M. *New England Medical Center, Boston, Mass.* Medicine
Dreher, Gerald F. *University of Texas Affiliated Hospitals, Houston, Texas* Surgery
DuFresne, Craig R. *Johns Hopkins Hospital, Baltimore, Md.* Surgery
Dunaif, Andrea E. *Presbyterian Hospital, New York, N.Y.* Medicine
Dworkin, Paul *North Shore University Hospital, Manhasset, N.Y.* Medicine
Fain, Wendy B. *Duke University Medical Center, Durham, N.C.* Psychiatry
Fanucchi, Michael P. *Bronx Municipal Hospital Center, Bronx, N.Y.* Medicine
Feldman, Edward S. *Case Western Reserve University—Cleveland Metropolitan Hospital, Cleveland, Ohio* Medicine
Fingerhut, James W. *Medical College of Wisconsin Affiliated Hospitals, Milwaukee, Wis.* Medicine
Fitz-James, Ingrid A. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Fox, James L. *Northwestern University Graduate Clinical Training Program, Chicago, Ill.* Orthopedic Surgery

Frank, Susan J. *Roosevelt Hospital, New York, N.Y.* Medicine
Garcia, Carmen J. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Gerber, Diane L. *Northwestern University Graduate Clinical Training Program, Chicago, Ill.* Surgery
Goldman, Ira S. *Presbyterian Hospital, New York, N.Y.* Medicine
Gorman, Jack M. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Gould, Robert J. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Greenberg, Jonathan *Johns Hopkins Hospital, Baltimore, Md.* Surgery
Greenebaum, Ellen *Roosevelt Hospital, New York, N.Y.* Medicine
Griggs, Edward A. *Overlook Hospital, Summit, N.J.* Flexible
Grodman, Marc D. *Roosevelt Hospital, New York, N.Y.* Medicine
Gualtieri, Richard J. *University of Virginia Hospital, Charlottesville, Va.* Medicine
Gustafson, Gregory M. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Haasler, George B. *Presbyterian Hospital, New York, N.Y.* Surgery
Halleran, David R. *Roosevelt Hospital, New York, N.Y.* Surgery
Hammond, David B. *The New York Hospital, New York, N.Y.* Psychiatry
Heldman, Jay P. *Presbyterian Hospital, New York, N.Y.* Medicine
Heller, Caren A. *New York University—Bellevue Hospital, New York, N.Y.* Medicine
Henry, Ronald M. *Washington Hospital Center, Washington, D.C.* Medicine
Herron, Merinda J. *Children's Hospital of the District of Columbia, Washington, D.C.* Pediatrics
Hillyard, David R. *Presbyterian Hospital, New York, N.Y.* Pathology
Hoffman, Mark A. *New England Deaconess Hospital, Boston, Mass.* Surgery
Hutson, Glenda *University of Miami Affiliated Hospitals, Miami, Fla.* Family Practice
Jorgensen, Jacob W. III *Presbyterian Hospital, New York, N.Y.* Pathology
Juncos, Jorge L. *Roosevelt Hospital, New York, N.Y.* Medicine
Kane, Mary A. *Duke University Medical Center, Durham, N.C.* Family Practice
Kantor, Lauren *New York University—Veterans Administration Hospital, New York, N.Y.* Medicine
Kaplan, Jeffrey S. *Long Island Jewish Hospital, New Hyde Park, N.Y.* Surgery
Kaufmann, Charles *The New York Hospital, New York, N.Y.* Psychiatry
Kinney, Walter K. *St. Mary's Hospital, San Francisco, Calif.* Flexible
Knobler, Joanna G. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Kopelman, Rima G. *Presbyterian Hospital, New York, N.Y.* Medicine
Kopelson, Gene *The Massachusetts General Hospital, Boston, Mass.* Radiation Medicine
Kritzler, Robert K. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Kroop, Steven A. *University of Texas—San Antonio Teaching Hospitals, San Antonio, Texas* Medicine
Kutscher, Austin H. *Roosevelt Hospital, New York, N.Y.* Medicine
Lane, Edward M. *St. Luke's Hospital Center, New York, N.Y.* Surgery
Lattimer, Jon K. *University of Hawaii Integrated Residency Program, Honolulu, Hawaii* Surgery
Legant, Patricia *University of Utah Affiliated Hospitals, Salt Lake City, Utah* Medicine
Leibowitz, David S. *Johns Hopkins Hospital, Baltimore, Md.* Medicine
Levine, Joel B. *Los Angeles County—Harbor General, Torrance, Calif.* Pediatrics
Lewis, Neville B. *The New York Hospital, New York, N.Y.* Psychiatry
Lewis, Vivian *The Mount Sinai Hospital, New York, N.Y.* Obstetrics and Gynecology
Light, Susan E. *University of California Hospitals, San Francisco, Calif.* Pediatrics
Lindsey, Ronald W. *Yale—New Haven Medical Center, New Haven, Conn.* Surgery
Liu, John P. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Makadon, Harvey J. *Beth Israel Hospital, Boston, Mass.* Medicine

Matzkin, Ellen J. *Medical University of South Carolina Hospitals, Charleston, S.C.* Medicine
Mayer, Deborah A. *The New England Deaconess Hospital, Boston, Mass.* Medicine
Meehan, Justine M. *Presbyterian Hospital, New York, N.Y.* Medicine
Mellow, Nancy L. *St. Vincent's Hospital, New York, N.Y.* Flexible
Mendes, Donna M. *St. Luke's Hospital Center, New York, N.Y.* Surgery
Mitchell, William J. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* Medicine
Mottow, Linda S. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Mouradian, Wendy E. *Childrens Center – University Hospital, Seattle, Wash.* Pediatrics
Naidorf, Kenneth F. *Waterbury Hospital, Waterbury, Conn.* Medicine
Natanson, Charles *The New York Hospital, New York, N.Y.* Medicine
Nath, Barbara J. *The Massachusetts General Hospital, Boston, Mass.* Medicine
Neely, Sara M. *The University of Chicago Hospitals and Clinics, Chicago, Ill.* Medicine
Neugut, Alfred I. *Bronx Municipal Hospital Center, Bronx, N.Y.* Medicine
Orloff, Paul N. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Otto, Nancy R. *Roosevelt Hospital, New York, N.Y.* Surgery
Pachtman, Erica *University of Colorado Affiliated Hospitals, Denver Colo.* Psychiatry
Pamelia, Frank X. *University of Virginia Hospital, Charlottesville, Va.* Medicine
Pan, Ellen D. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* Flexible
Perez, Jose R. *Roosevelt Hospital, New York, N.Y.* Surgery
Perrone, Howard F. *Roger Williams General Hospital, Providence, R.I.* Medicine
Phillips, Rogsbert F. *Grady Memorial, Atlanta, Ga.* Surgery
Prusnofsky, Leslie *New York Hospital—Westchester Division, White Plains, N.Y.* Psychiatry
Pugh, George A. *University of California Hospitals, San Francisco, Calif.* Orthopedic Surgery
Rago, Thomas A. *Roosevelt Hospital, New York, N.Y.* Surgery
Rasmussen, Carl A. *University of Chicago Hospitals and Clinics, Chicago, Ill.* Medicine
Recht, Lawrence D. *University of Minnesota Hospitals, Minneapolis, Minn.* Medicine
Roberts, Thomas E. III *University of California Hospitals, Los Angeles, Calif.* Surgery
Rodriguez-Villa, Fernando J. *New York Hospital—Westchester Division, White Plains, N.Y.* Psychiatry
Roen, Janet L. *Presbyterian Hospital, New York, N.Y.* Surgery
Rohrer, Richard J. *The New England Deaconess Hospital, Boston, Mass.* Surgery
Rose, David *The New York Hospital, New York, N.Y.* Surgery
Rosenthal, Linda E. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Rosenwein, Marilyn F. *University of California Hospitals, San Francisco, Calif.* Obstetrics and Gynecology
Rubin, Mark L. *Rhode Island Hospital, Providence, R.I.* Medicine
Ruderman, William B. *Grady Memorial, Atlanta, Ga.* Medicine
Sacks, Frank M. *University Hospitals, Madison, Wis.* Surgery
Schaefer, Daniel W. *Roosevelt Hospital, New York, N.Y.* Pediatrics
Schuster, Allan H. *Long Island Jewish Hospital, New Hyde Park, N.Y.* Medicine
Scolnick, Barbara *Beth Israel Hospital, Boston, Mass.* Medicine
Shangold, Gary A. *University of Miami Affiliated Hospitals, Miami, Fla.* Obstetrics and Gynecology
Shapiro, Lee S. *Hospitals of the University Health Center, Pittsburgh, Pa.* Medicine
Siegel, Michael S. *New York University – Bellevue Hospital, New York, N.Y.* Medicine
Siegal Alice J. *Lenox Hill Hospital, New York, N.Y.* Pediatrics
Silverstein, Marc D. *New York University – Bellevue Hospital, New York, N.Y.* Medicine
Smith, Evelyn F. *Hartford Hospital, Hartford, Conn.* Medicine

Smith, Steven P. *University Hospitals, Boston, Mass.* Medicine
Spain, William J. *Mount Zion Hospital, San Francisco, Calif.* Medicine
Spiro, Alan H. *Michael Reese Medical Center, Chicago, Ill.* Medicine
Spotnitz, William D. *Presbyterian Hospital, New York, N.Y.* Surgery
Stamm, Patricia J. *Veterans Administration—Los Angeles Medical Center, Los Angeles, Calif.* Medicine
Stern, Robert G. *University of Miami Affiliated Hospitals, Miami, Fla.* Medicine
Stillman, Margaret A. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Stone, Ross G. *The New England Deaconess Hospital, Boston, Mass.* Surgery
Streicher, Eric M. *University Hospitals, Madison, Wis.* Medicine
Thorsen, Marie K. *Presbyterian Hospital, New York, N.Y.* Medicine
Tropper, Pamela J. *Presbyterian Hospital, New York, N.Y.* Obstetrics and Gynecology
Vaida, George A. *Thomas Jefferson University Hospital, Philadelphia, Pa.* Medicine
Valente, Philip T. *The New York Hospital, New York, N.Y.* Pathology
Vande Stouwe, Robert A. *Roosevelt Hospital, New York, N.Y.* Medicine
Vazquez, Raphael L. *Loma Linda University Hospital, Loma Linda, Calif.* Diagnostic Radiology
Washington, Eleby R. *St. Luke's Hospital Center, New York, N.Y.* Surgery
Weathers, Susan W. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* Surgery
Webb, Hueldine *The New York Hospital, New York, N.Y.* Surgery
Williams, Antoinette H. *Emory University Affiliated Hospitals, Atlanta, Ga.* Psychiatry
Woolf, Paul K. *The Children's Hospital of Philadelphia, Philadelphia, Pa.* Pediatrics
Ying, Christopher Y. *University Hospitals, Boston, Mass.* Medicine
Zachary, Kirk J. *New York University—Veterans Administration Hospital, New York, N.Y.* Medicine
Zarian, Lawrence P. *University of Hawaii Integrated Residency Program, Honolulu, Hawaii* Flexible

Student Roster: Class of 1978

Aberizk, William Joseph, Jr. Lawrence, Mass. *B.A., Harvard, 1974*
Addonizio, Gerard Carmen Medford, Mass. *B.A., Columbia, 1974*
Albertsen, Peter Christian Tenafly, N.J. *B.A., Princeton, 1974*
Alfano, Francis D. Greenwich, Conn. *B.S., Fordham, 1973*
Allen, Julian Lewis Bethlehem, Pa. *B.A., Columbia, 1974*
Arnold, Linda Jennette Menlo Park, Calif. *B.A., Stanford, 1974*
Arzeno, George Santurce, Puerto Rico *B.S., Massachusetts Institute of Technology, 1974*
Ashwell, Jonathan David Bethesda, Md. *B.A., Colgate, 1974*
August, Jeremy West Nyack, N.Y. *B.S., Johns Hopkins, 1974*
Barnes, Henrietta Belmont, Mass. *B.A., Harvard, 1972*
Benvenisty, Alan Ira Merrick, N.Y. *B.S., Union (Schenectady), 1974*
Berlinksy, Elaine Carol Providence, R.I. *B.S., Brown, 1970; M.S., Harvard, 1972*
Bleicher, Robert Howard Fair Lawn, N.J. *B.S., Michigan, 1974*
Bohler, Henry C.L. Hampton, Va. *B.S., Hampton Institute, 1974*
Brauntuch, Glenn R. Greenwich, Conn. *B.A., Rochester, 1974*
Brittain, David C. Ithaca, N.Y. *B.A., Middlebury, Vt., 1974*
Cantor, Richard Stephen Roslyn, N.Y. *B.A., Rochester, 1974*
Capeci, Ellen Marianne Pelham, N.Y. *B.A., Wellesley, 1974*
Capone, Robert Anthony Jackson Heights, N.Y. *B.A., New York University, 1974*
Carpenter, Duncan B. Scarsdale, N.Y. *B.A., Bowdoin, 1974*

Chen, Clarence Lee Chicago, Ill. *B.A., Oberlin, 1970*
Cohen, Mark William New Rochelle, N.Y. *B.S., Massachusetts Institute of Technology, 1974*
Comstock, Marcia L. Keene, N.H. *B.A., Manhattanville, 1974*
Daly, Jennifer Susan Kettering, Ohio *B.A., Sarah Lawrence, 1973*
Daniel, Samuel Jeremiah Bronx, N.Y. *B.A., Queens, 1974*
Davidson, Leslie New York, N.Y. *B.A., Harvard, 1970*
Dewar, Jean New York, N.Y. *B.A., Barnard, 1973*
DiSalvo, Donald Nicholas Hartsdale, N.Y. *B.A., Williams, 1974*
Donnelly, Christine Marie Kew Gardens, N.Y. *B.A., Manhattanville, 1973*
Edgerton, Ada Badillo Forest Hills, N.Y. *B.S., St. John's (New York), 1974*
Fein, Alan Bruce Malverne, N.Y. *B.A., Rochester, 1974*
Fithian, Thomas Edward Bridgeton, N.J. *B.A., Pennsylvania, 1974*
Flood, Stephen J. Fond du Lac, Wis. *B.A., Ripon, 1973*
Fogelquist, Jan Elizabeth Dhahran, Saudi Arabia *B.A., Barnard, 1973*
Frenk, Ellen New York, N.Y. *B.A., New York University, 1974*
Friedman, Bruce Brooklyn, N.Y. *B.A., Harvard, 1972*
Friedman, Joseph Harold Yonkers, N.Y. *B.A., Chicago, 1969*
Goodrich, James Tait Laguna Beach, Calif. *B.S., California (Irvine), 1974*
Gordon, Charles R. New York, N.Y. *B.S., City College of New York, 1966*
Gyi, Bo Rangoon, Burma *B.A., Brandeis, 1971*
Hansen, Darcyjeanne Allendale, N.J. *B.A., Williams, 1974*
Heiken, Jay Paul N. Arlington, N.J. *B.A., Williams, 1974*
Henrikson, Karl Eric Stamford, Conn. *B.A., Vermont, 1973*
Herter, Geoffrey Elvin Manchester, Mass. *B.A., Harvard, 1973*
Hilton, Eileen Bronx, N.Y. *B.A., Lehman, 1974*
Himmelstein, David Urius New York, N.Y. *B.A., Bennington, 1972*
Hoagland, Peter Maclean Denver, Colorado *B.A., Harvard, 1974*
Hollander, Ellen Lynne Forest Hills, N.Y. *B.A., Harpur, 1969*
Hritz, Ann Jo New York, N.Y. *B.S., SUNY (Buffalo), 1969*
Hutt, Cheryl Sue Brooklyn, N.Y. *B.A., Barnard, 1974*
Hyams, David Michael Miami, Fla. *B.A., Vassar, 1974*
Jones, Ellen Elizabeth Frankfort, N.Y. *B.A., Smith, 1974*
Jordan, James Lewis Stanford, Calif. *B.S., Stanford, 1974*
Kaunitz, Andrew Moss Westport, Conn. *B.A., Brown, 1974*
Kerin, Douglas W. New York, N.Y. *B.A., Pennsylvania, 1974*
Kertzner, Robert Michael Brightwaters, N.Y. *B.A., Cornell, 1974*
Kesselbrenner, Michael B. New York, N.Y. *B.A., Columbia, 1974*
Kim, Ben Jackson Heights, N.Y. *B.A., Harvard, 1974*
Koppel, Barbara Sue Fort Plain, N.Y. *B.A., Rochester, 1974*
Kopynec, Bohdan William Deposit, N.Y. *B.A., SUNY (Binghamton), 1974*
Krilov, Leonard Roy Bronx, N.Y. *B.A., Brandeis, 1973*
LaBove, Phillip Stuart Deal, N.J. *B.S., Trinity (Connecticut), 1974*
Lander, Richard Harding New York, N.Y. *B.A., Yale, 1968*
Langa, Victoria Margaret Cherry Hill, N.J. *B.A., Rutgers, 1974*
Larach, David Ross Princeton, N.J. *B.A., Princeton, 1974*
Larmon, Steven Sigurd Olean, N.Y. *B.A., Dartmouth, 1974*
Lauer, Robert Charles Madison, N.J. *B.S., Bucknell, 1968*
Lawrence, Denise E. New York, N.Y. *B.A., Manhattanville, 1968*
Lemberg, Steven Bayside, N.Y. *B.S., SUNY (Stony Brook), 1974*
Lessing, David Portland, Ore. *B.A., Columbia, 1974*

Levine, Stewart Cedarhurst, N.Y. *B.A., New York University, 1974*
Lim, Suzanne Lee New York, N.Y. *B.S., Massachusetts Institute of Technology, 1974*
Magidson, Jory Glen Tenafly, N.J. *B.A., Rochester, 1974*
Mandelbaum, David E. New York, N.Y. *B.A., Columbia, 1974*
Manning, Reginald Eugene Brooklyn, N.Y. *B.A., Columbia, 1974*
Marchand, Babette Greenwich, Conn. *B.A., Pennsylvania, 1973*
Margulis, Elynne Beth Williston Park, N.Y. *B.S., Yale, 1974*
Meisler, William Jay Teaneck, N.J. *B.A., Columbia, 1974*
Melnick, David Alan Valley Stream, N.Y. *B.A., Columbia, 1974*
Meyers, Peter Kevin Staten Island, N.Y. *B.A., Columbia, 1974*
Monsanto, Enrique H. Whitestone, N.Y. *B.A., Queens, 1972*
Mossberg, Jane Elizabeth New York, N.Y. *B.S., Massachusetts Institute of Technology, 1974*
Murphy, William Ignatius III Pasadena, Calif. *B.S., Fordham, 1967*
Nagelberg, Steven Brooks Tarrytown, N.Y. *Bucknell*
Nakano, George James San Francisco, Calif. *B.A., M.A., California (Berkeley), 1972, 1973*
Nepola, James Vincent Ridgewood, N.J. *B.S., Yale, 1974*
Newmark, Jonathan Maplewood, N.J. *B.A., Harvard, 1974*
Ostow, Abigail Ruth Riverdale, N.Y. *B.A., Wellesley, 1974*
Owens, Lance Stuart Salt Lake City, Utah *B.A., Utah State, 1974*
Paetzold, Nancy M. Massapequa Park, N.Y. *B.A., Adelphi, 1973*
Peart, Harold T. Brooklyn, N.Y. *B.S., M.A., Howard, 1971, 1973*
Peters, William S. Kenmore, N.Y. *B.A., B.S., Pennsylvania State, 1972*
Phillips, Arnold Morris New York, N.Y. *B.S., Massachusetts Institute of Technology, 1974*
Piro, Philip A. Encino, Calif. *B.S., Yale, 1974*
Pogany, Anton C. South Orange, N.J. *B.A., Yale, 1973*
Propper, Michael Steven Westbury, N.Y. *B.A., B.S., Pennsylvania, 1974*
Puleo, Peter Robert Brooklyn, N.Y. *B.A., Princeton, 1974*
Rak, Ihor Wolodymyr Astoria, N.Y. *B.S., City College of New York, 1974*
Rattner, Susan Lee Troy, N.Y. *B.S., Union (Schenectady), 1974*
Reife, Ross Alexander Hillside, N.J. *B.A., Pennsylvania, 1974*
Reynard, Michael Daly City, Calif. *B.S., Stanford, 1974*
Riester, Carolyn E. Huntingdon Valley, Pa. *B.S., Yale, 1974*
Roberts, Richard Scott Pearl River, N.Y. *B.S., Colgate, 1974*
Rock, Ira Glenn New York, N.Y. *B.A., Lawrence, 1974*
Roisman, Jeffrey A. New York, N.Y. *B.A., Columbia, 1972*
Rosecan, Jeffrey Sanford St. Louis, Mo. *B.A., Columbia, 1974*
Rosen, Barry L. Highland Park, Ill. *B.S., Haverford, 1974*
Rosenthal, Robert Louis Sands Point, N.Y. *B.A., Yale, 1974*
Ruby, Steven Todd Boston, Mass. *B.A., Brandeis, 1974*
Santulli, Thomas Vincent East Greenwich, R.I. *B.A., Columbia, 1966*
Schackman, Lynn Debra New York, N.Y. *B.S., Yale, 1974*
Schaffner, Andrea New York, N.Y. *B.A., Barnard, 1973*
Schanck, Carolyn Agnes Albertson, N.Y. *B.S., Mount Saint Vincent, 1974*
Schwartz, Lawrence Alan Scarsdale, N.Y. *B.A., Rochester, 1974*
Sharp, Thomas Glinn Houston, Texas *B.A., Harvard, 1974*
Sherwood, James Alan DeWitt, N.Y. *B.A., Hamilton, 1974*
Sibley, Robert Emmett Staten Island, N.Y. *B.S., Notre Dame, 1974*
Silver, Daniel Henry Los Angeles, Calif. *B.A., California (Berkeley) 1974*

Soffer, Mark Jay Jackson Heights, N.Y. *B.A., Yale, 1972*
Soong, Hunson Silver Spring, Md. *B.S., Massachusetts Institute of Technology, 1971*
Sporn, Aaron Adolph Rosedale, N.Y. *B.S., SUNY (Stony Brook), 1974*
Stein, Bruce Elliot Freeport, N.Y. *B.A., Pennsylvania, 1974*
Stein, Douglas George Northboro, Mass. *B.S., Tufts, 1974*
Steiner, Mark Edward Bloomfield Hills, Mich. *B.A., Harvard, 1972*
Stern, Elizabeth Kay East Lansing, Mich. *B.A., Michigan State, 1967*
Stetz, Dean Edward Bayside, N.Y. *B.A., Columbia, 1974*
Stiff, Jacqueline Elaine Brooklyn, N.Y. *B.S., Cornell, 1974*
Stricker, Raphael B. New York, N.Y. *B.A., Columbia, 1971*
Tergis, Dorian Christopher Riverdale, N.Y. *B.S., Columbia, 1974*
Thompson, Mindy Jennifer New York, N.Y. *B.A., Bryn Mawr, 1971*
Trommer, Barbara Lois Kew Gardens, N.Y. *B.A., Queens, 1974*
Troyer, Claudette Boston, Mass. *B.A., Princeton, 1974*
Tucker, James Newman Elkins Park, Pa. *B.S., Tufts, 1974*
Velazquez, Nelvis Hialeah, Fla. *B.A., Barnard, 1974*
Versfelt, Mary Deborah Webster, N.Y. *B.A., Princeton, 1974*
Wagman, Lawrence David Hempstead, N.Y. *B.A., SUNY (Buffalo), 1974*
Wang, Victoria Adrian Rhode Island, N.Y., *B.A., Cornell, 1974*
Ward, Robert J. Douglaston, N.Y. *B.S., Fairfield, 1974*
Warshavksy, Calvin Robert Scarsdale, N.Y. *B.A., Princeton, 1974*
Weinstock, Ruth Sue Bayside, N.Y. *B.A., Smith, 1974*
Weitzman, Stephen Mitchell New Bedford, Mass. *B.A., Bowdoin, 1974*
White, John Vincent Oak Park, Ill. *B.A., Northwestern, 1974*
Widman, Lawrence Edward Elkins Park, Pa. *B.S., Massachusetts Institute of Technology, 1973*
Wilking, Andrew Pray New York, N.Y. *B.A., Harvard, 1972*
Winkler, Barbara Anne Bayside, N.Y. *B.A., Queens, 1974*
Winkler, William P. New York, N.Y. *B.S., Brown, 1972*
Wolinsky, David Gary Rochester, N.Y. *B.A., Columbia, 1974*
Young, Henry A. Erie, Pa. *B.A., M.A., Harvard, 1974*
Ziebur, Martha Alice Binghamton, N.Y. *B.A., Swarthmore, 1974*

Student Roster: Class of 1979

Aisen, Paul Stephen Scarsdale, N.Y. *B.A., Harvard, 1975*
Alexander, David Todd Matawan, N.J. *B.S., Yale, 1975*
Aranow, Michael Henry Hastings-on-Hudson, N.Y. *B.A., Harvard, 1975*
Arden, James Richard New York, N.Y. *B.A., Columbia, 1971*
Asherman, Steven Michael New York, N.Y. *B.A., Columbia, 1975*
Barry, M. Anita Towson, Md. *B.S., Georgetown, 1975*
Barry-Carlson, Elizabeth Glen Cove, N.Y. *B.A., Pennsylvania, 1973*
Barton, Brooke Millon New York, N.Y. *B.A., Princeton, 1975*
Bassett, Mary Travis New York, N.Y. *B.A., Radcliffe, 1974*
Becker, Mary Alice Bronx, N.Y. *B.S., Mount Saint Vincent, 1966*
Bernstein, Debra Jean Plainview, N.Y. *B.S., SUNY (Stony Brook), 1975*
Besserup, Robert S. Queens Village, N.Y. *B.S., Queens, 1975*
Bitetti, Janice Marie Huntington, N.Y. *B.S., Wellesley, 1975*
Bluh, Donald Gary Long Island City, N.Y. *B.A., Columbia, 1973*

Blumenthal, Celia Beth New York, N.Y. *B.A., Barnard, 1974*
Bogdan, Susan Lee Lake Mohegan, N.Y. *B.S., SUNY (Cortland), 1967; M.S., Sarah Lawrence, 1975*
Boucher, Ralph Albert Flushing, N.Y. *B.A., Yale, 1975*
Boxhill, Agnes Mary New York, N.Y. *B.S., City College of New York, 1974*
Brandt-Rauf, Paul W. Poughkeepsie, N.Y. *Eng.Sc.D., Columbia, 1974*
Brin, Mitchell Francis Livingston, N.J. *B.A., Pennsylvania, 1975*
Cadet, Jean Lud Brooklyn, N.Y. *B.S., Brooklyn, 1975*
Cafferty, Maureen Sarah Jackson Heights, N.Y. *B.S., St. John's (New York), 1975*
Cali, Michael Dennis Jamestown, N.Y. *B.A., Rochester, 1975*
Camras, Carl Bruce Glencoe, Ill. *B.A., Yale, 1974*
Chodos, Joel Ethan Bronx, N.Y. *B.A., Columbia, 1975*
Cogen, Fran R. Syosset, N.Y. *B.S., Cornell, 1975*
Conway, Stephen Robert Hartford, Conn. *B.A., Amherst, 1975*
Craig, Michael Joseph New Milford, N.J. *B.A., Columbia, 1975*
Creger, Philip Sterne Stanford, Calif. *B.A., Stanford, 1975*
Csete, Marie Elizabeth Colonia, N.J. *B.A., Princeton, 1975*
DeFelippo, Noel Peter Brooklyn, N.Y. *B.S., SUNY (Stony Brook), 1975*
DiBiase, John Joseph Bronx, N.Y. *B.E., Cooper Union, 1975*
Diefenbach, William Paul Southampton, N.Y. *B.A., Columbia, 1972*
Edinburgh, David Miles Great Neck, N.Y. *B.S., Massachusetts Institute of Technology, 1975*
Evans, Walter Francis II Warwick, N.Y. *B.A., Dartmouth, 1975*
Flick, Jonathan Andrew Roslyn Heights, N.Y. *B.S., Yale, 1975*
Forem, Sandra Lee Bronx, N.Y. *B.A., Barnard, 1975*
Francomano, Thomas Bronx, N.Y. *B.A., New York University, 1973*
Frankel, Etta Brener Shreveport, La. *B.S., Washington (St. Louis), 1967; M.Ed., Columbia, 1971*
Gilbard, Jeffrey Paul Roslyn, N.Y. *B.A., Brown, 1975*
Gordon, Kimberly Woodbridge, Conn. *B.A., Smith, 1975*
Grelsamer, Ronald Paul New York, N.Y. *B.A., B.S., Brown, 1975*
Harary, Albert Maurice West Palm Beach, Fla. *B.A., Harvard, 1975*
Holmberg, Scott Dewey Canton, Mass. *B.A., Harvard, 1971*
Horowitz, Nina Ruth Silver Spring, Md. *B.A., Yale, 1975*
Hradesky, Christine Louise Clearwater, Fla. *B.A., Cornell, 1973*
Jacobs, Michael Aaron Short Hills, N.J. *B.A., Bowdoin, 1975*
Jacobson, Ira M. Brooklyn, N.Y. *B.S., Yale, 1975*
Johnson, Lawrence Philip Ridgewood, N.J. *B.A., Dartmouth, 1975*
Jozefowicz, Ralph Francis Woodside, N.Y. *B.A., Johns Hopkins, 1975*
Kahn, David Alan Great Neck, N.Y. *B.A., Haverford, 1975*
Kahn, Jeffrey Paul Scarsdale, N.Y. *B.A., Swarthmore, 1975*
Katz, Martha Ellen New York, N.Y. *B.A., Barnard, 1974*
Kelsey, Peter Baker Rye, N.Y. *B.A., Princeton, 1975*
Klutchko, Lynn Carol Massapequa Park, N.Y. *B.A., Yale, 1975*
Knapp, Albert Bruce New York, N.Y. *B.A., Columbia, 1975*
Knox, Karen Burnet Wilmington, Del. *B.A., Harvard, 1975*
Korn, Jane Ellen Brooklyn, N.Y. *B.A., Michigan, 1975*
Kosovsky, Karen Ann New York, N.Y. *B.A., Brown, 1975*
Kucharchik, Thomas Farmingdale, N.Y. *B.A., Harvard, 1975*
Kudlak, Theresa Tatiana Brooklyn, N.Y. *B.A., Barnard, 1971*
Kurth, Donald James, Jr. Westwood, N.J. *B.A., Columbia, 1975*

Kwiatkowski, David Joseph Middleville, N.Y. *B.S., California Institute of Technology, 1972*
Labinson, Robert Merrill Fort Lee, N.J. *B.A., Rutgers, 1975*
Lamm, Joel Lewis Roslyn Harbor, N.Y. *B.A., Brandeis, 1975*
Lee, David Kuo-Ping Poughkeepsie, N.Y. *B.A., Yale, 1975*
Lehman, Lawrence Brad Little Neck, N.Y. *B.A., Hofstra, 1975*
Leibowitz, Steven Philadelphia, Pa. *B.A., Brandeis, 1975*
Leventhal, Jeanne Louise Berkeley, Calif. *B.A., California (Berkeley), 1975*
Levitan, Sara Anne New York, N.Y. *B.A., Hunter, 1975*
Li, Lawrence Roslyn, N.Y. *B.A., Harvard, 1975*
Lidofsky, Steven David Brooklyn, N.Y. *B.A., Columbia, 1975*
Linder, Barbara Laura Bronx, N.Y. *B.S., Cornell, 1975*
Liskin, Barbara Ann Englewood, N.J. *B.A., Smith, 1974*
Litsky, Alan Steven New Britain, Conn. *B.A., Princeton, 1975*
Lowe, Franklin Charles New York, N.Y. *B.A., Princeton, 1975*
McCrimons, Daniel Everett St. Albans, N.Y. *B.A., Harvard, 1975*
McDonald, Patricia Ann Chicago, Ill. *B.A., Dartmouth, 1975*
Madoff, Robert David Newton Centre, Mass. *B.A., Harvard, 1975*
Manevitz, Alan Z. A. Brooklyn, N.Y. *B.S., Brooklyn, 1975*
Marchese, Ann Curtis Penfield, N.Y. *B.A., Rutgers, 1975*
Mark, Laurence Peter New York, N.Y. *B.S., Harvey Mudd, 1975*
Marks, Elizabeth Leah New York, N.Y. *B.A., Radcliffe, 1974*
Martin, Eva Berkeley, Calif. *B.A., California (Berkeley), 1975*
Matsuba, Howard Mitsuyuki Honolulu, Hawaii *B.A., Hawaii, 1974*
Mercado, Nydia Esther New York, N.Y. *B.A., Hunter, 1975*
Merkow, Robert Lewis Madison, Wis. *B.A., Wisconsin, 1975*
Miller, Andrew David Allentown, Pa. *B.A., Princeton, 1975*
Miller, Ronald William Davenport, Iowa *B.A., Macalester, 1968*
Morrison, David Scott Woonsocket, R.I. *B.A., Holy Cross, 1975*
Muncaster, Richard Bernard Woodstown, N.J. *B.A., Yale, 1975*
Orell, Jeffrey Allan Baldwin, N.Y. *B.A., Columbia, 1974*
Orenstein, Harry Herman Mystic, Conn. *B.A., Harvard, 1975*
Oshiyoye, Adekunle E. Lagos, Nigeria *B.S., Howard, 1974*
Packer, Michael Gordon Bristol, R.I. *B.A., Harvard, 1975*
Palmisano, Joanne Joyce Union, N.J. *B.S., Maryland, 1974*
Peyser, Karen Edna New York, N.Y. *B.A., Barnard, 1973*
Polan, H. Jonathan Merion, Pa. *B.A., Princeton, 1974*
Pollack, David Mark Cedarhurst, N.Y. *B.A., Brown, 1975*
Pollack, Geoffrey Jay Whitestone, N.Y. *B.A., Columbia, 1975*
Pollack, Steven Allen Whitestone, N.Y. *B.A., Columbia, 1975*
Purcell, Ralph N. New York, N.Y. *B.A., Columbia, 1975*
Quarnstrom, Thomas James St. Clair Shores, Mich. *B.A., Columbia, 1975*
Raiken, Deborah Faye Williamsville, N.Y. *B.A., Brandeis, 1974*
Rayport, Stephen Gregory Perrysburg, Ohio *B.A., Harvard, 1975*
Ronner, Hilary Jane Bronx, N.Y. *B.A., Barnard, 1975*
Ross, Alan Barry Union, N.J. *B.A., Cornell, 1972*
Roth, Philip Brooklyn, N.Y. *B.A., Columbia, 1975*
Rubinstein, Alina Anna New York, N.Y. *B.A., New York University, 1967*
Russo, Paul Ithaca, N.Y. *B.A., Colgate, 1975*
Satlin, Lisa Michelle White Plains, N.Y. *B.A., Mount Holyoke, 1975*
Scerbo, James Alexander Morris Plains, N.J. *B.A., Bucknell, 1975*

Schlesinger, Mark Paul Cranford, N.J. *B.A., Rutgers, 1975*
Schubert, Armin Reichenau bei Linz, Austria *B.S., Yale, 1975*
Schwartz, Harold I. New York, N.Y. *B.A., Queens, 1969*
Sciascia, Thomas Richard Buffalo, N.Y. *B.A., Massachusetts Institute of Technology, 1975*
Seaman, Cheryl Tenafly, N.J. *M.A., Chicago*
Sebag, Jerry Flushing, N.Y. *B.A., Columbia, 1973*
Seitz, William Henry, Jr. Staten Island, N.Y. *B.S., Fairfield, 1971*
Shapiro, David Matthew Chicago, Ill. *B.A., Princeton, 1975*
Shea, Steven J. C. New York, N.Y. *B.A., Harvard, 1968*
Siegel, Robert Errol Flushing, N.Y. *B.A., Queens, 1975*
Siegfried, Virginia Ann Redwood City, Calif. *B.S., Stanford, 1975*
Silbert, Glenn R. Woodbury, N.Y. *B.S., Columbia, 1975*
Sims, Kathie B. Wellesley, Mass. *B.A., Middlebury, 1971*
Sims, Nathaniel Merriman South Burlington, Vt. *B.A., Harvard, 1975*
Stackhouse, Thomas G. Hamilton Square, N.J. *B.S., Muhlenberg, 1975*
Stark, Barbara J. Garden City, N.Y. *B.A., Smith, 1975*
Stein, H. David Newton, Mass. *B.A., Brandeis, 1975*
Sternfeld, Nancy Lee Brooklyn, N.Y. *B.A., Carleton, 1972*
Stevens, Laurie Ann Palo Alto, Calif. *B.A., Yale, 1975*
Stork, Linda Claudette Englewood, N.J. *B.A., Yale, 1974*
Struthers, Charlene Middleton Livermore, Calif. *B.A., Stanford, 1975*
Stuchiner, David Jon New York, N.Y. *B.A., Sarah Lawrence, 1975*
Sulis, Carol Ann Lynnfield, Mass. *B.A., Wellesley, 1973*
Sybert, Peter Egon Walnut Creek, Calif. *B.A., California (Berkeley), 1975*
Szpaizman, Sergio Bronx, N.Y. *B.A., Lehman, 1974*
Taus, Richard Howard Bronx, N.Y. *B.A., Yale, 1975*
Thane, Michael William Harpersfield, N.Y. *B.S., Cornell, 1975*
Werner, Morgan Simon Scarsdale, N.Y. *B.A., Colorado, 1975*
Wissel, Paul Stephen Scarsdale, N.Y. *B.S., Baldwin-Wallace, 1974*
Witzel, Phyllis Beth Elizabeth, N.J. *B.A., Brandeis, 1975*
Wormser, Andrew Charles New York, N.Y. *B.A., Princeton, 1975*
Yacovone, Joseph Fred Elmhurst, N.Y. *B.A., Columbia, 1975*
Zatzkis, Mark Asher West Orange, N.J. *B.A., Harvard, 1975*
Zolnik, Lawrence Anthony Meriden, Conn. *Columbia*
Zuflacht, Richard Neil Old Westbury, N.Y. *B.A., Williams, 1975*

Student Roster: Class of 1980

Ahlborn, Thomas Nesbitt Wilmette, Ill. *B.A., Harvard, 1975*
Allan, Anne Elizabeth Wilmington, Del. *B.A., Johns Hopkins, 1976*
Anderson, Nancy Ann New York, N.Y. *B.A., Barnard, 1976*
Anthony, Kent Ervin Cleveland, Tenn. *B.A., Columbia, 1976*
Apfelbaum, Terri Francine New York, N.Y. *B.A., Barnard, 1976*
Appel, Rena Lee New York, N.Y. *B.A., Barnard, 1972*
Bello, Jacqueline Anne Rye, N.Y. *B.A., Dartmouth, 1976*
Berkeley, Hope Ann Jersey City, N.J. *B.A., Barnard, 1972*
Bernstein, Carol Ann Hollywood, Fla. *B.A., Bryn Mawr, 1969*
Blumenkehl, Mark Lewis Paterson, N.J. *B.S., Brooklyn College, 1976*
Boakye-Adjei, Oheneba Brooklyn, N.Y. *B.S., Brooklyn College, 1976*

Bogen, Craig Alan Coram, N.Y. *B.A., Pennsylvania, 1976*
Bransford, Kent Jackson Anaheim, Calif. *B.A., California (Berkeley), 1976*
Brudney, Karen Florence Cambridge, Mass. *B.A., Yale, 1973*
Cartelli, Nancy Ann Bronx, N.Y. *B.A., Hunter, 1976*
Casper, Theodore Pearl River, N.Y. *B.A., Cornell, 1976*
Chernov, Claudia Ruth Newton, Mass. *B.A., Barnard, 1975*
Chow, John Hei-Sing Corona, N.Y. *B.S., Columbia, 1976*
Cohen, David Eliot Teaneck, N.J. *B.A., Wesleyan, 1976*
Czaja, Mark James Natick, Mass. *B.A., Yale, 1976*
Danso, Alex Kingsley New York, N.Y. *B.A., Harvard, 1976*
Davey, Richard Thomas Dix Hills, N.Y. *B.S., Massachusetts Institute of Technology, 1976*
DeAngelis, Lisa Marie New Haven, Conn. *Wellesley*
Deland, Jonathan Thorndike Darien, Conn. *B.A., Harvard, 1976*
Delaney, Kathleen Ann Los Angeles, Calif. *B.S., California (Irvine), 1972*
Dennison, Allen Mansfield Bronx, N.Y. B.A., Harvard, 1975
Dillon, Peter Riverside, Conn. *B.S., Harvard, 1976*
Dolinsky, Paul Arthur Hartford, Conn. *B.S., Tufts, 1976*
Downey, Richard Stuart New York, N.Y. *B.A., Columbia, 1976*
Dubin, Leslie Beryl New York, N.Y. *B.A., Princeton, 1976*
Dwosh, Jack White Sulfur Springs, N.Y. *B.A., Cornell, 1976*
Ecker, Hendrik Michel Philadelphia, Pa. *B.A., Princeton, 1975*
Engler, Alan Michael Weston, Mass. *B.A., Yale, 1976*
Epner, Elliot M. North Woodmere, N.Y. *B.A., Wesleyan, 1976*
Epstein, Joel Harvey Albertson, N.Y. *B.A., Sarah Lawrence, 1976*
Fakharzadeh, Frederick F. Teaneck, N.J. *B.A., Cornell, 1976*
Farrell, Matthew Michael Bronx, N.Y. *B.S., Manhattan, 1974*
Fehrs, Laura J. Armonk, N.Y. *B.A., Kirkland, 1976*
Feiman, Nancy Beth New York, N.Y. *B.A., Yale, 1976*
Feller, Matthew Frederick Bayside, N.Y. *B.S., Columbia, 1976*
Fisher, William A. Bantam, Conn. *B.S., Yale, 1976*
Fithian, Eileen Marie Lititz, Pa. *B.A., Pittsburgh, 1972*
Flamm, Michael Jay New York, N.Y. *B.A., Yale, 1976*
Fox, Joyce Ellen New York, N.Y. *B.A., Bryn Mawr, 1976*
Fox, Susan C. New York, N.Y. *B.S., Ohio State, 1971*
Friedmann, Martin Lewis North Salem, N.Y. *B.A., Yale, 1973*
Gardine, Robert Louis Brooklyn, N.Y. *B.A., Columbia, 1976*
Geddes, Anne Caroline Santa Ana, Calif. *B.A., Oberlin, 1976*
Gelfand, Janice Marcy Briarcliff Manor, N.Y. *B.S., Cornell, 1975*
Geller, Peter Levine Brookside, N.J. *B.A., Harvard, 1971*
Genkins, Steven Mark New York, N.Y. *B.A., Yale, 1976*
Geraci, Kira Antonia Malverne, N.Y. *B.A., Adelphi, 1976*
Goland, Robin Stephanie Skokie, Ill. *B.A., Radcliffe, 1976*
Graney, John Francis Swarthmore, Pa. *B.A., Swarthmore, 1973*
Griffin, Patrick Herbert Tulsa, Okla. *B.A., Columbia, 1976*
Grundfest, Warren Scott Belleville, N.J. *B.A., Swarthmore, 1975*
Halio, Joel Henry Brooklyn, N.Y. *B.A., Columbia, 1974*
Hamm, Peter Gerard Washington, D.C. *B.A., Princeton, 1976*
Handlin, David Stephen North Woodmere, N.Y. *B.A., Harvard, 1976*
Handwerger, Sandra Dee N. Bellmore, N.Y. *B.A., Vassar, 1976*
Hardy, Howard Wesley III Washington, D.C. *B.A., Harvard, 1976*

Harris, David Alan Beverly Hills, Calif. *B.S., Yale, 1976*
Herbert, Robert Alan Scarsdale, N.Y. *B.A., Columbia, 1976*
Hollenberg, James Paul Great Neck, N.Y. *B.A., Harvard, 1976*
Hotes, Richard Eric West Hartford, Conn. *B.S., Trinity, 1976*
Howell, John Taylor III Cold Spring Harbor, N.Y. *B.S., Princeton, 1976*
Hurwitz, Samuel Michael Hamden, Conn. *B.A., Columbia, 1976*
Jacobson, Wendy Nan Scarsdale, N.Y. *B.A., Wesleyan, 1976*
Kawata, Carol Lynn Los Angeles, Calif. *B.A., Stanford, 1976*
Kiest, Curtis Alan Portland, Ore. *B.A., Harvard, 1976*
Kumaki, David James Dolton, Ill. *B.A., Chicago, 1976*
Langendorf, Frederick New York, N.Y. *B.A., Harvard, 1973*
La Pook, Jonathan David Great Neck, N.Y. *B.S., Yale, 1975*
Lauderdale, Bradley Tenafly, N.J. *B.A., Harvard, 1976*
Lee, Dennis Elliott Rochester, N.Y. *B.S., Brown, 1976*
Leff, Steven Russell Flushing, N.Y. *B.A., Columbia, 1976*
Legant, Paul Morris Tempe, Ariz. *B.A., Whittier, 1970*
Levey, Meryl Anne Bronx, N.Y. *B.S., Lehman, 1976*
Levin, Daniel H. Jackson Heights, N.Y. *B.A., Columbia, 1976*
Lewis, Barbara Ann Shorewood, Wis. *B.A., Wisconsin, 1975*
Lipkin, Alan Frederick Bayside, N.Y. *B.A., Rochester, 1976*
Lipschitz, Sherman Scott Brooklyn, N.Y. *B.A., Columbia, 1976*
Lipson, Mindy Ann St. Paul, Minn. *B.S., Massachusetts Institute of Technology, 1976*
Lurio, Joseph G. Dobbs Ferry, N.Y. *B.A., Columbia, 1976*
Lyle, Henry Richard Nutting Lake, Mass. *B.A., Harvard, 1976*
McCann, Peter Damian New York, N.Y. *B.A., Columbia, 1975*
Macchi, Paul J. Westchester, N.Y. *B.A., Columbia, 1976*
McCluskey, Leo Francis West Paterson, N.J. *B.S., Boston, 1976*
Mackenzie, Jane Atkinson Greenfield, N.H. *B.S., Brown, 1976*
McKinley, George Franklin Glasgow, Ky. *B.A., Louisville, 1976*
Malin, Barnet David Beverly Hills, Calif. *B.A., Brown, 1976*
Manelis, Jocelyn Beth Fall River, Mass. *B.A., Wellesley, 1976*
Markowitz, Steven Barnard West Hartford, Conn. *B.A., Yale, 1975*
Maxwell, Celia J. New York, N.Y. *B.S., Hunter, 1973*
Mazzeo, Vincent Paul Brookville, N.Y. *B.A., Columbia, 1976*
Moley, Jeffrey Fletcher Quogue, N.Y. *B.A., Harvard, 1976*
Morris, Valery Lois New Milford, N.J. *B.A., Princeton, 1976*
Murphy-Chutorian, Douglas Roger Queens, N.Y. *B.S., Columbia, 1976*
Navia, Bradford Armando Ridgewood, N.J. *B.A., Columbia, 1976*
Newman, Bernard Patrick III Nanuet, N.Y. *B.A., Williams, 1976*
Nunez, Domingo C. New York, N.Y. *B.A., Columbia, 1976*
O'Connell, Genevieve Cecilia Waterbury, Conn. *B.A., Connecticut, 1972*
O'Laughlin, Martin Pius Kansas City, Mo. *B.A., Harvard, 1976*
Oliver, Dennis Carey Delhi, N.Y. *B.S., Georgetown, 1976*
Orentriech, David Scott New York, N.Y. *B.S., Hobart, 1976*
Pankewycz, Oleh George News Brunswick, N.J. *B.S., Rutgers, 1976*
Paradis, Marc Andre Belmont, Mass. *B.A., Holy Cross, 1976*
Parnes, Anita Lynn New York, N.Y. *B.A., Radcliffe, 1976*
Paul, Matthew David Teaneck, N.J. *B.A., Wesleyan, 1975*
Pfeffer, Sondra Jane New York, N.Y. *B.A., Barnard, 1976*
Quevedo, Jonathan Paul Bronx, N.Y. *B.S., Fordham, 1976*
Radin, Arthur Irwin Bronx, N.Y. *B.A., Columbia, 1976*

Ressa, Ames Daniel Port Washington, N.Y. *B.A., Brown, 1976*
Roman, Mary Jean Indianapolis, Ind. *B.A., Barnard, 1974*
Romano, Angela Antonia Brooklyn, N.Y. *B.S., Barnard, 1976*
Rosenfeld, Suzanne Syosset, N.Y. *B.A., Sarah Lawrence, 1975*
Rosenthal, Robert Bruce West Hartford, Conn. *B.S., Yale, 1976*
Rubenfeld, Marian Ruth Bronx, N.Y. *B.A., Barnard, 1976*
Rund, Deborah Gasner New York, N.Y. *B.A., City College of New York, 1970*
Saber, William Leland Freeport, N.Y. *B.A., Hampshire, 1976*
Sahar, David I. Rutherford, N.J. *B.A., Columbia, 1975*
Sakwa, Marc Peter Southfield, Mich. *B.A., Brown, 1976*
Schiz, Steven L. Valley Stream, N.Y. *B.A., California (Berkeley), 1976*
Schlam, Julia Frances Oradell, N.J. *B.S., Yale, 1976*
Schloss, Stephen Bertram Forest Hills, N.Y. *B.S., Yale, 1976*
Schulz, Danielle Eve Bronx, N.Y. *B.A., Smith, 1976*
Scott, Wendell O. Randolph, Mass. *B.S., Tufts, 1976*
Segal, Michael Myer Cambridge, Mass. *B.A., Harvard, 1976*
Serdarevic, Olivera Natalie Goshen, N.Y. *B.A., Barnard, 1976*
Sessler, Daniel Ira Berkeley, Calif. *California (Berkeley)*
Shapiro, Peter Andrew Chicago, Ill. *B.A., Princeton, 1976*
Sharanevych, Irene Sophia Irvington, N.J. *B.A., Rutgers, 1976*
Softness, Barney Glen Cove, N.Y. *B.A., Amherst, 1976*
Starker, Paul Matthew Nyack, N.Y. *B.S., Harvard, 1976*
Steinberg, Robin Faith Long Beach, N.Y. *B.A., Smith, 1976*
Sullivan, Mary Anna Lowell, Mass. *B.A., Dartmouth, 1976*
Swiderski, Deborah M. Syracuse, N.Y. *B.A., Barnard, 1971*
Talbot, Paul Anthony Queens, N.Y. *B.A., Columbia, 1975*
Teichman, Sam Leopold Rego Park, N.Y. *B.A., Columbia, 1976*
Thea, Donald Mark Tiburon, Calif. *B.S., Antioch, 1976*
Thomas, Natalia Elena Brooklyn, N.Y. *B.A., Radcliffe, 1976*
Ultmann, Monica Chicago, Ill. *B.A., Oberlin, 1975*
Waltner, Nancy Madeleine New York, N.Y. *B.A., Brown, 1976*
Wescoe, Sibyl Douglas, Kan. *B.A., Kansas*
West, Sally Agnes New York, N.Y. *B.S., Yale, 1973*
Wiznia, Andrew Alan Little Neck, N.Y. *B.A., Brandeis, 1976*
Yellin, Tova Gail Aurora, Ill. *B.A., Barnard, 1976*
Zeidel, Mark Lawrence Waitsfield, Vt. *B.S., M.S., Yale, 1976*
Zwas, Felice Rosel Brooklyn, N.Y. *B.A., Barnard, 1976*

Student Roster: Class of 1981

Adams, Roberta Harris Bronxville, N.Y. *B.S., Antioch, 1977*
Aiken, Brenda Brooklyn, N.Y. *B.A., Barnard, 1977*
Aldea, Gabriel-Sorin New York, N.Y. *B.A., Columbia, 1977*
Altshuler, Steven Lane Englewood, N.J. *B.A., Rochester, 1977*
Amador, Jorge Luis Bronx, N.Y. *B.A., Princeton, 1975*
Apfelbaum, Mark New York, N.Y. *B.A., Yeshiva, 1977*
Appleton, Abraham T. Englewood, N.J. *B.A., Yeshiva, 1976*
Aranow, Robert Bittman Hastings on Hudson, N.Y. *B.A., Harvard, 1977*
Auletta, Maria Jackson Heights, N.Y. *B.S., St. Francis, 1977*
Ausubel, Kalman Brooklyn, N.Y. *B.A., Yeshiva, 1977*

Bauman, Phillip Allen Larchmont, N.Y. *B.A., Harvard, 1976*
Beane, Susan Jo Bronx, N.Y. *B.A., Princeton, 1977*
Beitz, Julie Germaine Jackson Hts., N.Y. *B.A., Barnard, 1977*
Bender, Alison Ann Norristown, Pa. *B.A., Pennsylvania, 1977*
Blackwood, Roland Alexander New Rochelle, N.Y. *B.A., Columbia, 1976*
Booth, Richard Linn Cambridge, Ohio *B.A., Princeton, 1977*
Broom, Michael Joseph Sudbury, Mass. *B.A., Dartmouth, 1977*
Butler, Annette Louise Laurelton, N.Y. *B.S., Queens, 1977*
Byrne, Jeffrey Michael Sherborn, Mass. *B.S., Massachusetts, 1977*
Cagliostro, Stephen Bronx, N.Y. *B.A., Columbia, 1977*
Capaldo, Maria Elena New York, N.Y. *B.S., Hunter, 1970*
Carson, JoAnn Monroe, N.Y. *B.S., Yale, 1977*
Castiglione, Charles L. Hamden, Conn. *B.A., Yale, 1977*
Chandra, Elizabeth Stuart New York, N.Y. *B.A., Goucher, 1972*
Clinton, Henry Louis New York, N.Y. *B.A., Columbia, 1977*
Cohen, Paul Jay Bronx, N.Y. *B.A., Columbia, 1977*
Cohen, Ron New York, N.Y. *B.A., Princeton, 1977*
Collymore, Victor Alvin Bronx, N.Y. *B.A., Columbia, 1977*
Colon-Linares, Juan Ponce, Puerto Rico *Iowa*
Cotto, Sonia Brooklyn, N.Y. *B.A., Barnard, 1977*
Cutillo, Robert Paul Montclair, N.J. *B.S., Georgetown, 1977*
Daaboul, Jorge Juan Aguadilla, Puerto Rico *B.S., Yale, 1977*
Degreef, Gustav Lido Beach, N.Y. *B.A., Hofstra, 1976*
Deluty, Sheldon Howard Bronx, N.Y. *B.A., Columbia, 1977*
Devinsky, Orrin South Orange, N.J. *B.S., Yale, 1977*
Diao, Edward Flushing, N.Y. *B.A., Harvard, 1977*
Drucker, Elizabeth Anne San Mateo, Calif. *B.A., Princeton, 1977*
Ehrlich, Carol Margaret New York, N.Y. *B.A., Barnard, 1977*
Elliott, Deirdre Davina New York, N.Y. *B.S., Columbia, 1977*
Ellis, John Edward Jamaica, N.Y. *B.A., Harvard, 1977*
Feinberg, Richard Ira Woodmere, N.Y. *B.A., Trinity, 1977*
Feit, David Louis Brooklyn, N.Y. *B.A., Brandeis, 1977*
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Freedman, Susan Dee Palo Alto, Calif. *B.A., Yale, 1975*
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Glantz, Sanford David Rosedale, N.Y. *B.S., SUNY (Stony Brook), 1977*
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Goldstein, Nannette Buffalo, N.Y. *B.A., SUNY (Stony Brook), 1973*
Golub, Robert Matthew Newburgh, N.Y. *B.A., Princeton, 1977*
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Grunberg, Eva Lillian Flushing, N.Y. *B.A., Queens, 1977*
Hayes, Dewleen Gay Atherton, Calif. *B.A., Stanford, 1968*
Hresko, Michael Timothy Flint, Mich. *B.A., Harvard, 1976*
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Katzman, Michael Brooklyn, N.Y. *B.A., Columbia, 1977*
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Zollo, Kenneth Allen Farmingdale, N.Y. *B.S., SUNY (Stony Brook), 1977*

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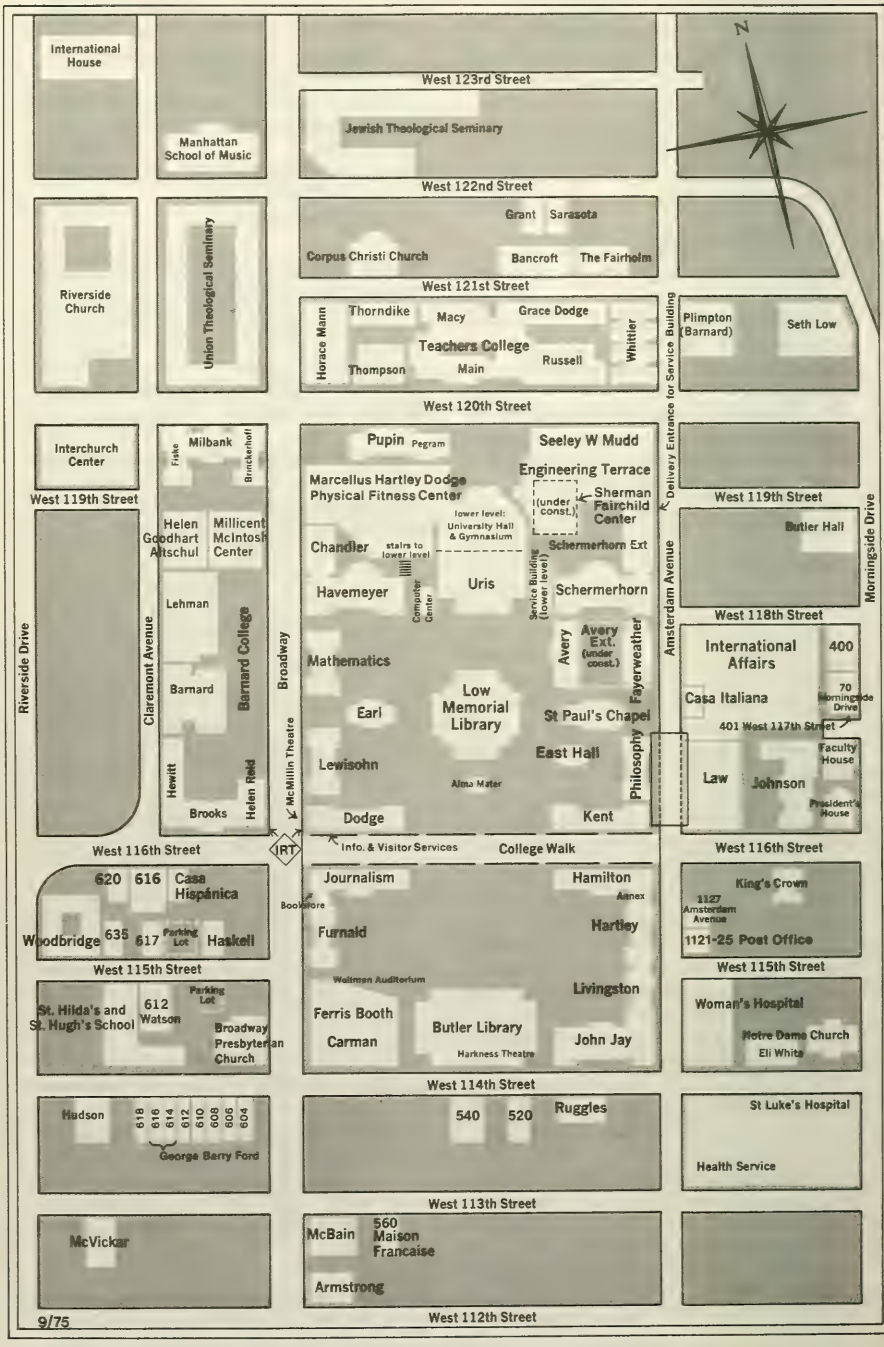

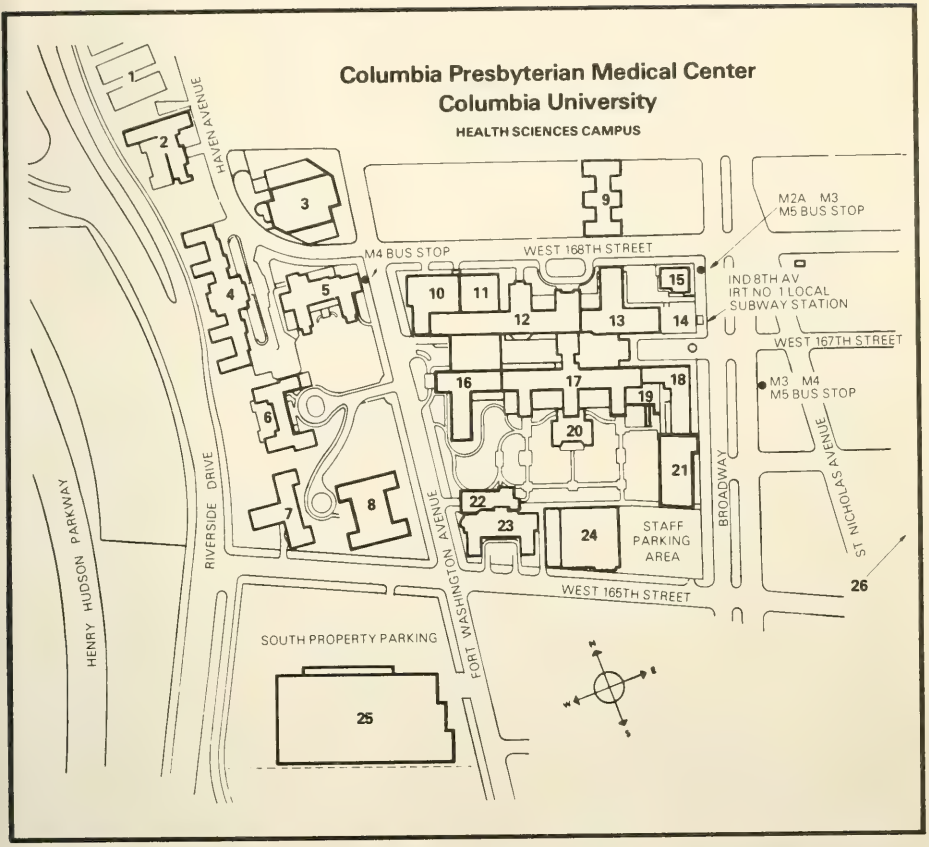

11 Alumni Auditorium
8 Dana W. Atchley Pavilion
18 The Babies Hospital
21 Babies Hospital Research, Teaching, and Office Addition
2 Bard Hall Medical Student Residence
1 Bard Haven Towers
10 William Black Medical Research Building
3 Institute of Cancer Research
3 Cancer Research Center
24 Central Service Building
12 College of Physicians and Surgeons
26 Center for Community Health Systems
13 School of Dental and Oral Surgery

9 Georgian Nurses Residence
22 Edward S. Harkness Eye Institute
23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
3 Health Sciences Center–Augustus Long Library
3 Institute of Human Nutrition
2/12 International Institute for the Study of Human Reproduction
6 Anna C. Maxwell Hall, School of Nursing Residence

5 The Neurological Institute of New York
6 School of Nursing
25 Parking facilities
17 Presbyterian Hospital
New York Orthopedic Hospital
Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
15 School of Public Health
19 Radiotherapy Center
13 Vanderbilt Clinic
14 Vanderbilt Clinic Addition

The Faculty of Medicine
COLLEGE OF PHYSICIANS
& SURGEONS

Columbia University Bulletin

1978-1979

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Postmaster: Send Form 3579 to Columbia University Bulletin, 303 Journalism Building, New York, N.Y. 10027

Columbia University Bulletin • Volume 12 • Number 16 • September 1978

Published once a month in January, February, March, May, and September; twice a month in April, June, and July; five times a month in August, for sixteen consecutive issues, by Columbia University, New York, N.Y. 10027. Second class postage paid at New York, N.Y.

The Faculty of Medicine
College of Physicians & Surgeons

Columbia University Bulletin

1978-1979

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Major Religious Holidays

For a statement of University policy on absence for the observance of religious holidays see *Admission, Registration, and Expenses*—Attendance.

JUNE

26-30 Monday-Friday.* Registration, including payment of tuition and fees, for third- and fourth-year students.

JULY

1 Saturday. Academic year begins for third- and fourth-year students.

4 Tuesday. Holiday for third- and fourth-year students.

AUGUST

1 Tuesday.† Last day to apply or reapply for all degrees to be conferred in October (see September 7).

21-25 Monday-Friday. Optional early registration for second-year students.

31 Thursday.* Registration, including payment of tuition and fees, for first-year students.

SEPTEMBER

1 Friday.* Registration, including payment of tuition and fees, for second-year students.

4 Monday. Labor Day. Holiday for third- and fourth-year students.

5 Tuesday. Academic year begins for first- and second-year students.

7 Thursday. Last day to file *late* applications for October degrees.

OCTOBER

25 Wednesday. Award of October degrees.

NOVEMBER

3 Friday.† Last day to apply or reapply for all degrees to be conferred in January (see December 8).

7 Tuesday. Election Day. Holiday for first- and second-year students.

23-24 Thursday-Friday. Thanksgiving holidays for first-, second-, and third-year students.

DECEMBER

8 Friday.† Last day to file *late* applications for January degrees.

16 Saturday through Tuesday, January 2, 1979. Vacation for first-, second-, and third-year students.

**Students allowed to register after the period specified must pay a late fee.*
†Students who apply after this date must pay a late fee.

JANUARY

12 Friday. First semester ends for first-year students.

15 Monday. Second semester begins for first-year students.

24 Wednesday. Award of January degrees.

FEBRUARY

19 Monday. Washington's Birthday. Holiday for first- and second-year students.

19 Monday.* Last day to apply or reapply for all degrees to be conferred in May (see April 9).

MARCH

3 Saturday through Sunday, March 11. Vacation for second-year students.

APRIL

7 Saturday through Sunday, April 22. Vacation for first-year students.

9 Monday.* Last day to file *late* applications for May degrees.

10 Tuesday and Wednesday, April 11. National Boards Part II for third-year students.

20 Friday. Major Clinical Year concludes for third-year students.

21 Saturday through Sunday, April 29. Vacation for third-year students.

30 Monday. Elective curriculum begins for third-year students.

MAY

2 Wednesday. Dean's Day for Medical Student Research.

16 Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.

28. Monday. Memorial Day. Holiday for all students.

JUNE

2 Saturday through Wednesday, June 13. Study period for second-year students. National Boards Part I (June 12 and 13).

8 Friday. Second semester ends for first-year students.

14 Thursday through Sunday, July 1. Vacation for second-year students.

Dates of National Board Exams

Part I	September 6-7, 1978 June 12-13, 1979
Part II	September 26-27, 1978 April 10-11, 1979

**Students who apply after this date must pay a late fee.*

The Faculty of Medicine

WILLIAM J. McGILL, Ph.D., L.H.D., LL.D. *President of the University*

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Columbia Presbyterian Medical Center

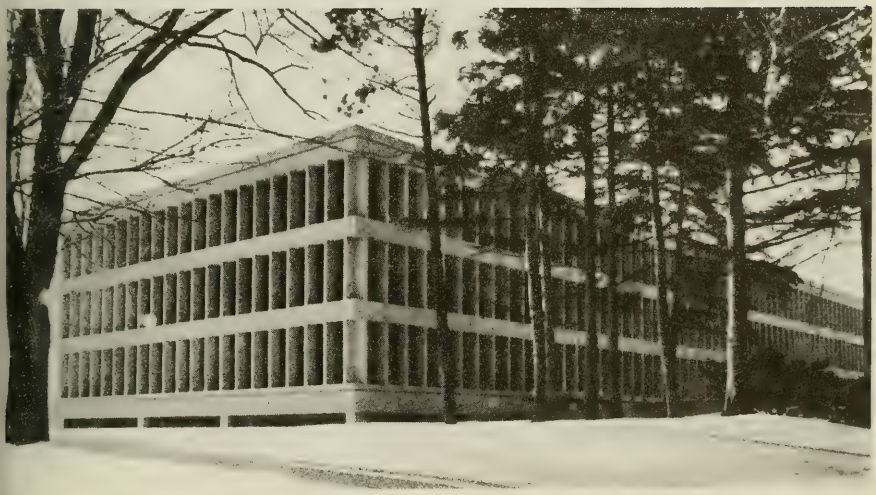
View of Bard Hall from Riverside Drive

Bard Haven Towers

Martin Luther King, Jr., Pavilion, Harlem Hospital Center

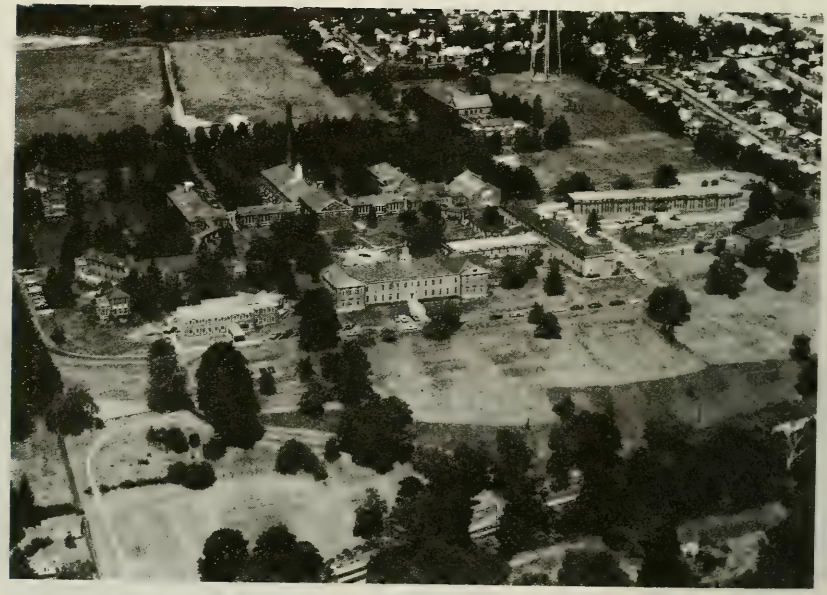
St. Luke's Hospital Center

Roosevelt Hospital

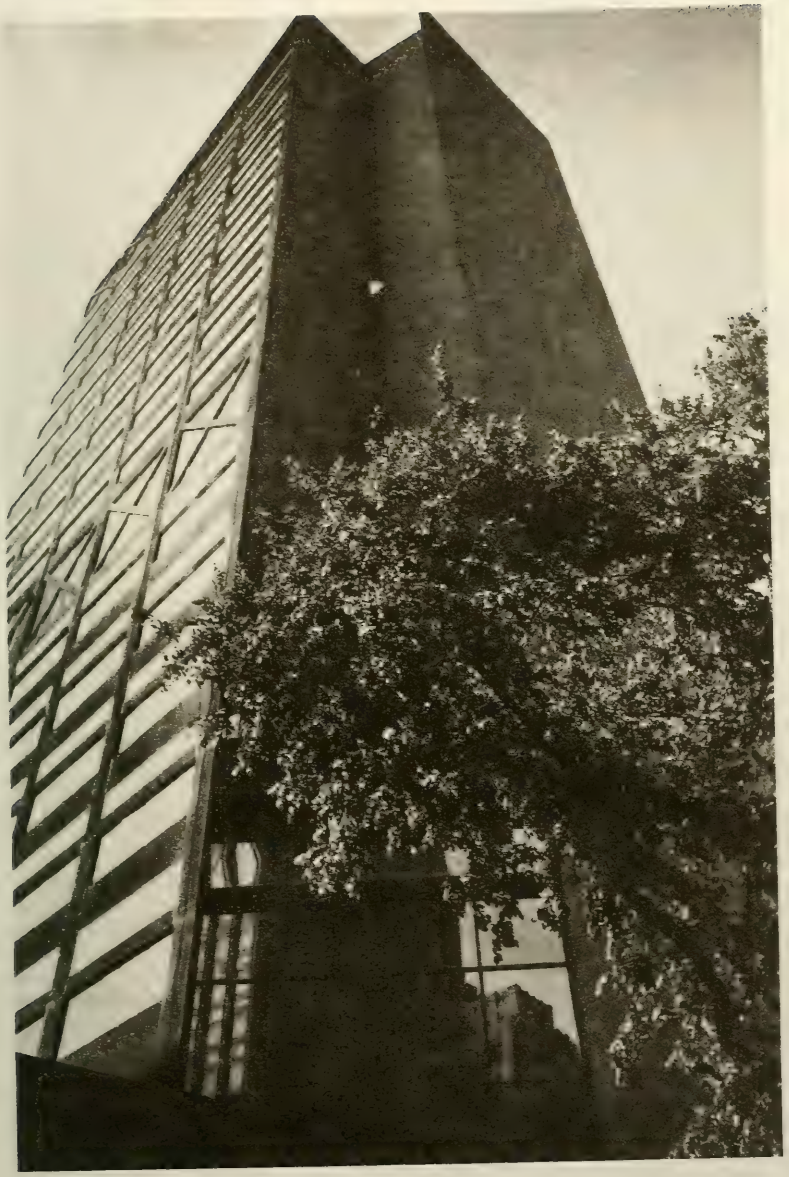


Mary Imogene Bassett Hospital

Overlook Hospital



Helen Hayes Hospital



Julius and Armand Hammer Health Sciences Center—Augustus Long Library

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which his knowledge develops.

History of the College and the University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broad-

way to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Health Sciences Library

The Columbia University Health Sciences Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 335,000 volumes and a staff of 34, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 3,000 periodicals are received regularly. An entire floor of the library has been designated as a media center and is equipped with a variety of audiovisual materials. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. A library handbook and other materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of Harvard and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Student memberships in the New York Academy of Medicine Library (at 103rd Street and Fifth Avenue) are available for an annual fee. Applications for membership, which includes borrowing privileges, should be directed to the Academy Library.

Cancer Center/Institute of Cancer Research

The Cancer Research Center was established in 1973. In 1977 it was designated the Cancer Center/Institute of Cancer Research. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's, Roosevelt, Harlem, and Overlook in Summit, New Jersey. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the care of patients with cancer. The Center is charged with the responsibility for research, education, and cancer-patient care by all health professionals.

The Institute of Cancer Research of Columbia University, College of Physicians and Surgeons, was established in 1909 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia Presbyterian Medical Center in 1938. The Institute and Center are fully integrated.

The Center is composed of five operational divisions: Basic Science Research, Clinical Research and Patient Care, Education, Cancer Control, and Administration.

Center for Community Health Systems

The Center for Community Health Systems is an interdisciplinary and interdepartmental health services and health policy research and development center which enlists varied resources of the University, particularly those of the Faculty of Medicine and its affiliated hospitals, in a systematic attack on problems in the organization and delivery of health care, with a predominant, though not exclusive, focus on urban areas.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are under way, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the seventh floor of the Health Sciences Center.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorder, out-of-wedlock pregnancy, marital and other social problems. The Institute consists of the Center for Reproductive Sciences, including the divisions of reproductive biochemistry, physiology, and reproductive morphology, and the Center for Population and Family Health, which includes the divisions of social and administration sciences, family life services, clinical evaluation, and sexual behavior.

The office of the International Institute for the Study of Human Reproduction is at Bard Haven Towers, 60 Haven Avenue.

Affiliated Hospitals

The Presbyterian Hospital

Founded in 1868, the hospital joined with Columbia's College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the

Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,291 beds and 48 bassinets.

The hospital includes all of the individual units described below:

Presbyterian Hospital, the single largest hospital unit, has a total of 480 beds, which includes semiprivate and ward facilities for medical and surgical services, as well as for New York Orthopaedic Hospital, Squier Urological Clinic, and Sloane Hospital for Women.

The New York Orthopaedic Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 87 beds.

Squier Urological Clinic has facilities on the tenth floor of the Presbyterian Hospital and on the tenth floor of Babies Hospital. There are 63 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies two floors of the Presbyterian Hospital and one floor in Harkness Pavilion, providing inpatient facilities for 117 adult patients and bassinets for 48 infants.

Harkness Pavilion, erected when the Medical Center was established in 1928, is available for the accommodation of 354 private and semiprivate patients from various services.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies. The capacity of the hospital is 168. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 237 beds, including 15 added in 1960 for psychiatric patients.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. Its capacity is 52. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the outpatient department for all the wards of all the units of the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 186 beds and a staff of specialists who are all salaried and full time. In 1976 there were 108,303 visits to the Outpatient Department. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 23,000 volumes and about 350 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of nearly 1,100 beds serving Central Harlem and environs, responsible for the care of approximately 400,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is a 150-bed independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. New patient facilities are under construction; the research building has been renovated and an active biomedical engineering unit developed.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 540-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and the primary care aspects of medical practice through a program of broad-based clinical experience for graduate physicians.

St. Luke's Hospital

St. Luke's Hospital Center was established in 1850 and has been on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center, which contains 773 beds including 53 pediatric beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than 90,000 visits a year and the various clinics almost 170,000 visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

The Roosevelt Hospital

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about 263,000 outpatient and emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library

contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in September of each year. The minimum requirement for admissions is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. Students applying for admission must also have taken the Medical College Admission Test in the spring or fall of the year of application. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Statement of Nondiscriminatory Policies

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other university-administered programs.

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R. (to which Columbia University is subject), the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to the University's Equal Opportunity Office, 402 Low Memorial Library, New York, N.Y. 10027, telephone (212) 280-3554, or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10017.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. The University's Equal Opportunity Office has also been designated to coordinate the University's compliance with the Rehabilitation Act of 1973 and Part 84 of 45 C.F.R.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $25. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores. Applicants will be notified,

also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and to develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Only a very small number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if a vacancy exists.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been able to admit relatively few individuals either to an entering class or with advanced standing whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. At registration a student provides the information required and pays tuition and fees. The Office of the Registrar, on the first floor of the Black Building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Any who do not now have a number should obtain one from their local Social Security office well in advance of registration.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until the fees have been paid. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period without the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Conduct

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student

and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Some of the major holidays occurring on weekdays during the current academic year are:

Monday, Tuesday, October 2, 3	Rosh Hashanah
Wednesday, October 11	Yom Kippur
Monday, Tuesday, October 16, 17	First days of Succoth
Monday, Tuesday, October 23, 24	Concluding days of Succoth
Thursday, Friday, April 12, 13	First days of Pesach
Friday, April 13	Good Friday
Wednesday, Thursday, April 18, 19	Concluding days of Pesach

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (Black Building, Room 138) no later than September 15 in the autumn term and January 31 in the spring term. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Tuition, the student health service fee, and the health insurance premium are payable in advance and as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (see the Academic Calendar) they will not be reduced, and a late fee of $10 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments $5,300.00

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1-August 31)

Health service fee	$215.00
Hospital insurance premium	143.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only.

Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Student Accounting Division, Black Building, Room 141, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees and Late Fees

For admission	$25.00
For late registration	10.00
For late application, or late renewal of application, for a degree	10.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Registrar in writing: failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health fee, the hospital insurance premium, application fees, late fees, and special fees are not refundable.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

Adjustment Schedule

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Registrar, 630 West 168th Street. In the 1978-1979 academic year, the last day to file for an October degree is August 1; for a January degree, November 3; and for a May degree, February 19. A late fee of $10 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 7 for October degrees, December 8 for January degrees, April 9 for May degrees.) Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application by paying a renewal fee of $1. A $10 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above.)

Requests for Transcripts

Transcripts may be requested by writing to the Office of the Registrar, 630 West 168th Street, New York, N.Y. 10032. *Official* transcripts must be sent by the University directly to an official address such as another university, a hospital, a business firm, or a government agency. However, a student may request an unofficial transcript (stamped "Student Copy"). There is a charge of $2 for each transcript requested except for those which are sent between offices of Columbia University. Checks accompanying transcript requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$5,300.00
Health and Hospitalization Insurance Fees	358.00
Books and supplies	685.00
Microscope rental cost and other equipment	250.00

In addition to the educational costs listed above, each first-year student should budget approximately $4,015 to cover housing ($1,250), food ($1,900), clothing, laundry and dry cleaning ($265), and miscellaneous expenses ($600).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for students in the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with a swimming pool, basketball and squash courts, and facilities for other sports.

Room rates at Bard Hall depend on the length of the academic year and the room assignment. Information on the cafeteria service, room application forms, and other details are provided for entering students by the Admissions Office. For further information, write to the Bard Hall Manager, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Tower I on the Medical Center campus. Married or single students may rent apartments in Towers II and III; the rents are higher. Information may be obtained from the Manager, Bard Haven Towers, 100 Haven Avenue, New York, N.Y. 10032.

Financial Aid

All financial aid awards are based on verified need. Each year applicants for financial aid are required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

Upon acceptance to the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state. The Financial Aid Office provides interested students with the necessary information on applications for these programs. Applicants to medical school should consult college premedical offices for information on the competitive New York State Regents Awards.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States or permanent residents (visa status). Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 250 West 57th Street, New York, N.Y. 10019 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. Annually, the Financial Aid Office of the College of Physicians and Surgeons advises students of the availability of this scholarship.

There are a number of scholarship funds administered by the Financial Aid Office of the

College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ALUMNI A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA AND ABRAHAM PENNER BERNHEIM SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

GEORGE BLUMENTHAL, Jr. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

Dr. HARRY BRITENSTOOL MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

Dr. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

ALONZO CLARK Founded by the will of Alonzo Clark, M.D. LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

HENRY D. CRUGER Bequest of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DAVID M. DEVENDORF Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

FRANCIS E. DOUGHTY Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINA KNEELAND FRANTZ Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

WILLIAM H. HEMINGWAY

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

CHARLES EUGENE HUBER, Sr. Bequest of Francis D. Huber, in memory of his father.

FRANCIS HUBER Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students studying under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber.

ELIZABETH HALL McCULLOGH Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons.

HERBERT D. MANLEY Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH F. SAPHIR MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus's services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, Jr., MEMORIAL Given by Dr. E. E. Stewart, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

HAROLD S. VAUGHAN Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the class of 1945, in memory of their classmate.

WHITING—Dr. FORDYCE B. St. JOHN SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Dr. JAMES LANCELOT WILSON Awarded to a student selected by the College of Physicians and Surgeons.

CLARA AND KRIKOR ZOHRAB Awarded with preference to students of Armenian extraction. Students are eligible to apply through interschool fellowship competition upon recommendation of the financial aid officer.

Gift Funds

CITIBANK MEDICAL SCHOLARSHIP Established by the Citibank. The recipient must have demonstrated need for support and he/she must be a New York State resident.

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees or members of the applicant's immediate family (i.e., mother, father, spouse). Foreign students may borrow from federal or state loan funds upon being granted permanent resident visa status in the United States.

Federal Health Professions Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus $2,500. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 7 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during period of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state that has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

National Direct Student Loans. Funds are allocated by the Office of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The total (undergraduate and graduate school loans) available to a student from the NDSL program is $10,000. The current interest rate, payable during the repayment period, is 3 percent on the unpaid principal. Repayment begins nine months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service or during service in the Peace Corps or Volunteers in Service to America (VISTA).

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance com-

panies. The maximum loan each academic year under this program is $5,000, and the total outstanding loan balance at any one time may not exceed $15,000. Interest may not be in excess of an annual percentage rate of 7 percent. Lending institutions participating in this program can provide further information regarding interest rates. Repayment begins nine to twelve months after the student's studies have been completed or otherwise terminated and is usually scheduled for completion within five to ten years.

Deferment of repayment is permitted for up to three years during the student's service in the military, the Peace Corps, or VISTA.

Other Sources of Loans. The National Education Loan Guarantee Program of the American Medical Association Education and Research Foundation (AMA-ERF) makes possible loans to all medical students, interns, and residents in good standing who are United States citizens, provided they are enrolled in full-time training at an AMA-approved American medical school or hospital and can demonstrate financial need. Medical students must have completed their first semester in order to qualify. The maximum amount that can be borrowed in a twelve-month period (September 1 to August 31) is $2,500. Up to a total of $12,500 may be borrowed over a period of seven years. The minimum loan for any one interim note is $400.

Interest rates have not been set at the time of this printing. Interest charges must be paid in full each year by the student. Payment of principal is deferred during the training period. Prepayment of principal may be made at any time without penalty.

University loan funds are also intended to supplement students' resources. Repayment of these loans is scheduled to begin nine months after graduation and to be completed within ten years (provided that a repayment rate of at least $30 a month is maintained). The interest charge for University loans is 3 percent a year on the outstanding loan balance.

The University has certain named loan funds from which medical students may borrow when monies are available. Included among these are the following funds:

PETER AMAZON Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, Jr. Used for the assistance of needy students in the medical school.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. Gift of George L. Hawkins, Jr., Class of 1941.

ROBERT ABBE MACKENZIE Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S, wherever they are in training, or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

JESSIE SMITH NOYES

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to inceased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in fifteen years; without interest for the first ten years; with 5 percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

JANEWAY PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

KAUFMAN AWARD Awarded to the senior in the College who, in the opinion of the Faculty, has the potential for exemplifying the humanitarian spirit in the art and practice of medicine, as lived by the late Dr. Walter Winchester, Class of 1900. Given by Dr. and Mrs. Lewis D. Kaufman.

Dr. HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE. Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Deparment of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

EDITH AND DENTON McKANE PRIZE Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

Dr. HAROLD LEE MEIERHOF PRIZE Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

JOSEPH GARRISON PARKER AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

Dr. ALFRED STEINER AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

Dr. HAROLD B. STEVELMAN AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

UROLOGY PRIZES Awarded to senior students for the best essays on urological subjects.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of the diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and those who chair the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Fine Arts, Athletics, Community Youth Work, Accessories, Social, and Columbia-Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The commitee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Development and Alumni Relations Office

The P&S Development and Alumni Relations Office considers its prime mission to be the fostering and maintenance of cordial relationships between the College of Physicians and Surgeons and its alumni. As such, the office is responsible for the administration of both alumni relations programming and alumni annual fund-raising projects throughout the course of any year.

Historically, alumni served by the office have included all those awarded the M.D. or Med. Sc.D. degrees from the College as well as those awarded the Certificate in Psychoanalytic Medicine. As of May 6, 1978, however, the membership-at-large of the Alumni Association, by amendment to their Constitution, also conferred automatic *associate member* status upon all faculty of the College; all interns, residents, and visiting fellows with appointments of one year or more at hospitals affiliated with P&S; and all Ph.D. graduates of the Basic Sciences Curricula including Anatomy, Biochemistry, Human Genetics, Microbiology, Pathology, Pharmacology, and Physiology.

A substantial component of the work of the Alumni Association is accomplished through the efforts of its sixteen standing and *ad hoc* committees; all alumni, of whatever membership status, are encouraged to volunteer for and participate in the work and activities sponsored by these groups.

Among the important functions performed through the P&S Development and Alumni Relations Office is the quarterly publication of the *P&S Journal*. This magazine, cosponsored by the alumni and the medical school, endeavors to speak to the College of Physicians and Surgeons community-at-large. All alumni, faculty, and those involved in postgraduate train-

ing at affiliated hospitals receive the *P&S Journal* gratis. It is also free to current students and their parents and to a wide range of other friends and associates of the College.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. As full and equal members of the Student Alumni Relations Committee, students and alumni work together in addressing students' current needs and seeking solutions to their problems.

Information about the Alumni Association and its activities is available from the P&S Development and Alumni Relations Office, 2005-C, Black Building, 630 West 168th Street, New York, N.Y. 10032. Telephone: (212) 694-3498.

The Program of Instruction

The first year curriculum is largely devoted to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses, major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: the First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes

to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited for study in the College.

Students in the College of Physicians and Surgeons are required to pass National Board examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of twelve weeks or less.

Summary of Curriculum (for students entering in September 1978)

First Year

SEPTEMBER 5, 1978 to JANUARY 12, 1979. First semester.

JANUARY 15, 1979 to JUNE 8, 1979. Second semester.

Second Year

SEPTEMBER 4, 1979 through JUNE 30, 1980.

Third and Fourth Years

JULY 1, 1980 through APRIL 30, 1982.

Basic Science and Introductory Clinical Courses of the First and Second Years

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastroenterology, Dr. Glickman; Hematology, Dr. Rifkind; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Weinstein; Nephrology, Dr. Al-Awqati; Surgery, Dr. Lo-Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy 101F. Microscopic anatomy
Dr. Nunez and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy 102F. Gross anatomy
Dr. Moss and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy 103F. Developmental biology
Dr. Pfenninger and departmental staff.
Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F-Microscopic anatomy*.

Biochemistry 101F. Introductory biochemistry
Dr. Gold and departmental staff.
Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics 101S.
Dr. Krooth and associates.
Lectures emphasizing general principles of genetics and their clinical application.

Introduction to the Practice of Medicine 101S.
Drs. Canfield, Marcus, and associates.
Lectures, conferences, and seminars addressing ethical and personal issues relevant to the practice of medicine.

Medicine 102S. Introduction to the patient
Dr. Morris and associates.
A series of interdepartmental presentations and demonstrations followed by an intensive four-week preceptorship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student will learn to take a comprehensive medical history and to perform a complete physical examination.

Microbiology 101F. General microbiology
Dr. Ginsberg and departmental staff.
Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Neural Science 101S.
Drs. Kandel, Kelly, Kupfermann, Rowland, Schwartz, and Spencer.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Nutrition 101F.
Dr. Winick and associates.
Lectures that define the elements of nutrition essential for good health.

Pathology 101F. General pathology
Dr. Branwood and departmental staff.
Lectures, conferences, and laboratory emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems.

Pathology 102S. Systemic pathology
Dr. Branwood and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies to elucidate the pathogenesis of findings in disease.

Pathology 103S. Neuropathology
Dr. Duffy and associates.
Lectures, demonstrations, and microscopic studies of diseases of the nervous system.

Pharmacology 101S. General and special pharmacology
Dr. Kahn and departmental staff.
Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Physician-Patient Relationship 101F.
Drs. Hembree, Rosenberg, and associates.
Preceptor sessions emphasizing the central role of the physician-patient relationship in the practice of medicine and the importance of the effects of health care organization and other factors on that relationship.

Physiology 101F. Human physiology
Dr. Nocenti and departmental staff.
Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry 101F. Human behavior, I
Dr. Maxmen and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Psychiatry 102S. Human behavior, II
Dr. Maxmen and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health 101F. Structure of health care systems
Dr. Rosenberg and associates.
Lectures and seminar groups on the current organization of health care.

Public Health 102F. Epidemiology
Dr. Gearing and associates.
Lectures and seminars to present epidemiological principles.

Public Health 103F. Biostatistics
Dr. Fleiss and associates.
Lectures on the basic elements of biostatistics applicable to medicine.

Public Health 104F. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year

Anesthesiology 201. Clinical clerkship in anesthesiology
Dr. Bendixen and staff at the Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannikin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannikin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe indications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis and treatment of local anesthetic drug toxicity.

Dermatology 201.
Dr. Harber and staff.
Included in *Medicine 201*.

Medicine 201. Clinical clerkship in medicine
Dr. Kimberg and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology 201. Clinical clerkship in neurology
Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology 202. Neurosurgery
Dr. Schlesinger and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201*.

Obstetrics and Gynecology 201. Clinical clerkship in obstetrics and gynecology
Dr. Vande Wiele and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology 201. Clinical clerkship in ophthalmology
Dr. Campbell and departmental staff of the Vanderbilt Clinic and the Eye Institute of the Presbyterian Hospital.
A clerkship providing practical instruction in ophthalmology including the use of ophthalmological instrumentation, such as the slit lamp, ophthalmoloscope (direct and indirect), visual field testing, and tonometry. Instruction is also given in the diagnosis and management of common ophthalmic problems.

Orthopedic Surgery 201. Clinical clerkship in orthopedic surgery
Dr. Garcia and staff at the Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology 201. Clinical clerkship in otolaryngology
Dr. Abramson and staff at the Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics 201. Clinical clerkship in pediatrics
Dr. Katz and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student will develop basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student will learn to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student will also learn to make the basic measurements of physical, neurological and psychosocial growth and development, and to plot and assess the data.

Psychiatry 201. Clinical clerkship in psychiatry
Dr. Sacher and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Public Health 201. Clerkship in public health and community medicine
Dr. Rosenberg and staff of the School of Public Health.
The public health and community medicine clerkship has two major objectives: to familiarize students with basic concepts of health care organization and financing, and to increase the number of future clinicians who will respond to the underlying causes of their patients' diseases by taking actions that go beyond individual clinical care. The first objective is approached through a series of seminars on topics chosen by the students. The second is approached through projects in which students attempt to lessen the incidence or prevalence of clinical problems (of their choice) in local population groups.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Downey and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201*.

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff at the Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery 202. Lectures and demonstrations in surgical pathology
Drs. Fenoglio and Lane and staff at the Presbyterian Hospital.
Included in *Surgery 201*.

Urology 201. Clinical clerkship in urology
Dr. Lattimer and staff.
During the clinical clerkship in urology students will learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients will be evaluated. By knowing diagnostic methods unique to urology, students will be able to formulate appropriate diagnostic and therapeutic plans.

Special Programs

M.D.-Ph.D. Program

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain the Ph.D. degree in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program. The program is supported by traineeships from the National Institutes of Health.

Applicants interested in the M.D.-Ph.D. program should write for further information and application forms to:

Dr. Lowell M. Greenbaum
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Pharmacology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the health care delivery system and the technological, social, and political forces that contribute to the problems and patterns of illness, medical

care, and delivery of services. They also develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns will differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student will use vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student will register concurrrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degree may be awarded simultaneously at the end of the fourth year or separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y., 10032, or the Director's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Programs in Physical Therapy and Occupational Therapy

Educational programs are offered by the Department of Rehabilitation Medicine to students who have already earned a bachelor's degree. They may apply for admission to a fourteen-month program leading to a professional certificate in physical therapy or to a two-year program leading to the Master of Science degree in occupational therapy. Details are given in the University bulletin, *Programs in Physical Therapy and Occupational Therapy.*

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and preferably a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Commitee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or its equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director, Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Clinical Genetics

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Committee on Clinical Genetic Services, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics, sponsored and directed by the Committee, offers clinical fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Committee on Clinical Genetic Services, Department of Human Genetics and Development, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

University Program of General Education

The Program of General Education offers a series of courses designed to bring together various scholarly and professional disciplines to explore matters of lasting human concern and distinct contemporary importance. The Program includes both experimental and time-tested forms of general education. As an outgrowth of Columbia's long experience in this area, the Program is based on the premise that general education can parallel disciplinary training in the graduate as well as undergraduate years. The Program offers intermediate and advanced courses that supplement such general introductions as Contemporary Civilization, Humanities A and B, Oriental Civilizations, and Oriental Humanities.

The Program's courses and seminars are addressed to both the nonspecialist and the specialist who is willing to venture beyond the conventional disciplinary boundaries. Within the normal limits of appropriate class size, and depending upon the level of the course, most

courses are open to qualified students from all divisions of the University. Students should check with their department or school if there are questions about receiving credit toward a major or a degree.

A complete listing of courses offered under the Program will be published as a supplement to the University bulletins in the late summer of 1978. It will include courses not otherwise announced in the bulletins. For information, contact the General Education Program, 1513 International Affairs Building, Columbia University, New York, N.Y. 10027. Telephone: (212) 280-2208.

During the 1978-1979 academic year, the Health Sciences Division of the University will conduct a General Education Seminar on the interdisciplinary analysis and explication of value issues in health sciences education, research, and service as related to behavior modification, neonatology, reproductive medicine, survival and dying, and health administration. Seminars in each of these topics meet in the autumn and spring terms and are open to students from any division of the University with permission of a faculty participant. For information, call the course director, Bernard Schoenberg, M.D. (694-3826), or the General Education Office (280-2208).

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund*, established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881-1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund*, given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize*, the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be most meritorious.

Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with his or her specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

Departments of Instruction

Listed are only those faculty appointments and promotions approved by May 15, 1978.

The designation "also" is used with the name of an individual holding a joint appointment in two departments. The name appears in both departmental listings.

The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in."

Anatomy

Professor and Chairman

Michael D. Gershon *B.A., Cornell, 1958; M.D. 1963*

Professors

Charles A. Ely. *B.A., Washington and Jefferson, 1936; Ph.D., Wisconsin, 1949*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
Virginia Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Associate Professors

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Karl H. Pfenninger. *M.D., Zurich, 1971*

Associate Professor of Clinical Pathology

Arline D. Deitch. *B.A., Brooklyn, 1944; M.A., Columbia, 1946; M.D., 1954*

Adjunct Associate Professor

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Kansas, 1956*

Assistant Professors

Richard Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*
Alan R. Gintzler. *B.A., Hunter, 1969; Ph.D., New York University, 1974*
James P. Kelly. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Daniel M. Linkie (in Obstetrics and Gynecology). *B.S., State University of New York (Downstate), 1962; M.S., State University of New York (Albany), 1963; Ph.D., Michigan, 1971*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*
Elizabeth Thompson. *B.A., Radcliffe, 1964; Ph.D., Cornell, 1971*

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Taube Pearl Rothman, Ph.D.

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Frederic J. Agate, Jr., Ph.D.

INSTRUCTOR
Sharon C. Caolacino, Ph.D.

STAFF ASSOCIATES
Diane L. Sherman, B.S.
G. Teitelman de Pinczuk, Ph.D.

Anesthesiology

Professor and Chairman

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

Professors

Mieczyslaw Finster (also Obstetrics and Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (also Pharmacology). *M.B., National Central (Nanking), 1944*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Jacob S. Israel. *B.A., Columbia, 1945; M.D., New York University, 1949*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Associate Professors

Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Allen I. Hyman (also Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Associate Professor of Clinical Anesthesiology

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

Assistant Professors

Richard Y. Z. Chen. *M.D., National Taiwan, 1966*
Arthur Donald Finck. *B.S., Lafayette, 1968; M.D., Columbia, 1972*
Yakub M. Gangat. *B.S., Bombay, 1961; M.D., Gujarat, 1967*
John A. Holzer. *B.A., California (Berkeley), 1968; M.D., California (San Diego), 1972*

Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Norman M. Mazza. *B.E.E., Rensselaer Polytechnic Institute, 1964; M.D., New York Medical College, 1972*
Leila M. Pang (also Pediatrics). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Ivonne Vulliemoz. *M.S., Lausanne, 1956; Ph.D., Paris, 1969*
Sook Young Woo. *B.S., Ewha Women's University (Seoul), 1968; M.D., 1972*
Jen-Tieng Wung. *M.D., Taipei Medical College, 1966*

Assistant Professors of Clinical Anesthesiology

Ana Maria Lobo Antunes. *M.D., Lisbon Faculty of Medicine, 1967*
Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Sobha Chakraborty. *M.B., B.S., Calcutta, 1964; M.S., Punjab, 1968*
Kathryn A.W. Cozine. *M.D., Johns Hopkins, 1961*
Alber Faltas. *M.D., Kasr-El-Ainy Medical School (Egypt), 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
Patricia Wolcott Hartwell. *B.A., Northwestern, 1967; M.D., Columbia, 1971*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
Marlise A. Ogilvie-Meier. *B.S., Lausanne, 1963; M.D., Zurich, 1969*
Medhat Riad Wassef. *M.B., B.Ch., Cairo, 1957*
Gerald S. Weinberger. *M.D., New York University, 1948*
Marcelle M. Willock. *B.A., New Rochelle, 1958; M.D., Howard, 1962*

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At Mary Imogene Bassett Hospital

Assistant Clinical Professor

William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

At Harlem Hospital

Associate Professor of Clinical Anesthesiology

Herbert G. Cave. *M.D., Howard, 1947*

Assistant Professors of Clinical Anesthesiology

Elmer S. Foster. *B.S., College of the City of New York, 1952; M.D., Brussels, 1959*
Jean B. M. Gilot. *B.S., Lycée Jamel (Haiti), 1952; M.D., Medical School of Haiti, 1958*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycée T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Stephanie Shich. *M.D., Josef Pilsudski, 1937*
William M. Smith. *B.A., Michigan, 1954; M.D., Zurich, 1966*
Madisetti Swamy. *M.B., B.S., Osmania (India), 1954*
J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1960*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

Assistant Clinical Professors

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

At Overlook Hospital

Assistant Clinical Professors

Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*
Mary Louise White. *B.S., Maryland, 1943; M.D., 1945*

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Jane deV. Stark, M.D.
Carol E. Zimmerman M.D.

At Roosevelt Hospital

Assistant Clinical Professor

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Guglielmo Bettini, M.D.

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Anselma L. Canlas, M.D.
Han Chiang Lee, M.D.
Ignacia U. Ngo, M.D.
Wilfred P. Pacpaco, M.D.

At St. Luke's Hospital

Associate Professor

Louis S. Blancato. *M.D., New York Medical College, 1945*

Assistant Professors of Clinical Anesthesiology

Ennio Gallozzi. *M.D., Rome, 1953*
Joseph Iacovelli. *B.A., Buffalo, 1952; M.D., Bologna, 1958*

Assistant Clinical Professors

Errol N. Harding. *B.A., M.D., C.M., McGill, 1949*
Aino Tuul. *M.D., Tartu (Estonia), 1942*

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Alfred T. C. Peng, M.D.
Altagracia H. Polanco, M.D.

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Byung Yang Kim, M.D.
Zdan J. Korduba, M.D.
Kyaw Nyunt, M.B., B.S.
Julio M. Garcia-Rodriguez, M.D.

Biochemistry

Professor and Chairman

Isidore S. Edelman. *B.A., Indiana, 1941; M.D., 1944*

University Professor

Sol Spiegelman (Director of the Institute of Cancer Research). *B.S., College of the City of New York, 1939; M.S., Columbia, 1942; Ph.D., Washington (St. Louis), 1944*

At Presbyterian Hospital

Professors

Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941; Ph.D., Duke, 1950*
Philip Feigelson. *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Arthur Karlin (also Neurology). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*
Seymour Lieberman (in Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*
Barbara W. Low. *B.A., Oxford, 1942; M.A., 1946; D.Phil., 1948*
Maurice M. Rapport (in Psychiatry). *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*
David B. Sprinson. *B.A., College of the City of New York, 1931; M.S., New York University, 1936; Ph.D., Columbia, 1946*
Parithychery Srinivasan. *B.Sc., Madras, 1946; Ph.D. 1953*

Adjunct Professors

Benno P. Schoenborn. *B.A., California (Los Angeles), 1958; Ph.D., New South Wales (Australia), 1962*
P. Roy Vagelos. *M.D., Columbia, 1954*

Associate Professors

Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*
Dezider Grunberger. *M.Sc., Technical University (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*

Adjunct Associate Professor

John D. Karkas. *Ph.D., Columbia, 1962*

Senior Research Associate

David Elwyn (in Surgery). *B.A., Columbia, 1941; Ph.D., 1950*

Assistant Professors

George Alexander (in Psychiatry). *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Irving Goodman (in Surgery). *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*
Ronald L. Hanson. *B.A., Minnesota, 1965; Ph.D., Wisconsin, 1970*
Herbert L. Meltzer (in Psychiatry). *B.S., Long Island, 1942; Ph.D., Columbia, 1950*
Terrone L. Rosenberry (in Neurology). *B.A., Oberlin, 1965; Ph.D., Oregon, 1969*

Adjunct Assistant Professor

Edith G. Gollub. *B.S., Philadelphia College of Pharmacy and Science, 1945; M.S., Pennsylvania, 1956; Ph.D., 1961*

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Irene E. Kochevar, Ph.D.
Sahebarao Mahadik, Ph.D. (in Psychiatry)
A. S. Perumal, Ph.D. (in Psychiatry)
Laura Ponticorvo, Ph.D. (in Obstetrics and Gynecology)

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Lawrence S. Rosen, Ph.D.

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Kuo-Pei Liu, M.A.
Utapalendu S. Maitra, Ph.D.

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Vepatu Shankar, Ph.D.

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Erwin Chargaff, M.D.
Zacharias Dische, M.D. (in Ophthalmology)
Karl Meyer, M.D. (in Ophthalmology)
David Nachmansohn, M.D. (in Neurology)

At Mary Imogene Bassett Hospital

Adjunct Associate Professor

Theodore Peters, Jr. (in Medicine). *B.S., Lehigh, 1943; Ph.D., Harvard, 1950*

Adjunct Assistant Professor

Leonard A. Sauer. *M.D., Rochester, 1961; Ph.D., Rockefeller, 1966*

At Roosevelt Hospital

Assistant Professor

Muriel Feigelson (in Obstetrics and Gynecology). *Ph.D., New York University, 1961*

SENIOR STAFF ASSOCIATE
E. Glenn Armstrong, Ph.D.

RESEARCH ASSOCIATE
Jannis G. Stavrianopoulos, Ph.D.

Dermatology

Professor and Chairman

Leonard C. Harber. *B.A., Johns Hopkins, 1949; M.D., New York University, 1953*

At Presbyterian Hospital

Professor of Clinical Dermatology

Lewis Shapiro (also Pathology). *B.A., Duke, 1948; M.D., 1952*

Clinical Professors

Saul L. Sanders. *B.A., Kenyon, 1950; M.D., Cornell, 1954*
Dorothy Windhorst. *B.A., Chicago, 1948; M.D., 1954*

Associate Professors

Richard L. Edelson. *B.A., Hamilton, 1966; M.D., Yale, 1970*
Margarita S. Hutner. *B.A., Puerto Rico, 1936; M.A., Harvard, 1945; Ph.D., 1952*

Associate Clinical Professors

Jack Eisert. *B.A., Cornell, 1952; M.D., State University of New York, 1956*
James P. Fields. *B.S., Texas, 1953; M.S., 1957; M.D., 1958*
David N. Silvers. *B.A., Haverford, 1964; M.D., Duke, 1968*
Richard A. Walzer. *B.A., Harvard, 1952; M.D., Columbia, 1956*

Assistant Professors

Maureen B. Poh. *B.S., Siena, 1964; M.D., Tennessee, 1967*
Robert R. Walther. *B.A., Cornell, 1969; M.D., North Carolina, 1973*
Gregory Zalar. *B.S., George Washington, 1965; M.D., Georgetown, 1969*

Assistant Clinical Professors

Irving Abrahams. *B.A., New York University, 1948; M.D., State University of New York, 1954*
Einar A. Juhlin. *B.S., Illinois, 1950; M.D., Royal Charles (Sweden), 1957*
Theodore A. Labow. *B.S., Miami, 1951; M.D., Tufts, 1955*

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Professors of Clinical Pathology

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Associate Professors of Clinical Surgical Pathology

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LECTURERS *(continued)*
Raymond Fink, Ph.D.
Thomas J. Foley, M.S.
Stephen L. Forstenzer, M.S.
Bernard Fuss, M.S.
Robert Galton, Ph.D.
George Goldberg, M.B.A.
Janet Gottschalk, Dr.P.H.
Edward V. Grant
Margaret T. Grossi, M.D.
David Harris, M.D.
Robert E. Heinlein, M.S.
Donald W. Helbig, M.D.
E. Geoffrey High, M.S.
Frank E. Iaquinta, M.D.
Florence Kavaler, M.D.

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Howard R. Kelman, Ph.D.
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Schuyler G. Kohl, M.D.
John T. Kolody, M.S.
Jacob Levine
Mary C. McLaughlin, M.D.
Robert Markowitz, M.S.
Robert M. Morrison, M.H.A.
Anthony C. Mustalish, M.D.
Karl E. Nelson, M.S.
Margaret J. O'Brien, M.P.H.
Donna O'Hare, M.D.
Jean Pakter, M.D.

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Olive E. Pitkin, M.D.
David A. Reed, M.S.
Peter Rogatz, M.D.
Hana Rostain, M.D.
Maurice V. Russell, Ed.D.
Melvin S. Schwartz, M.D.

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Joseph Sherber, M.S.
Elliot J. Simon, M.S.
Joseph E. Snyder, M.D.
Richard A. Stolnacke, M.S.
Thomas J. G. Tighe, Jr., M.P.H.
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Radiology

Professor and Chairman

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Professors

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Eric Hall (Physics). *Ph.D., Iriel (Oxford), 1962*
Sadek Hilal. *M.D., Cairo, 1955*
Philip M. Johnson. *B.A., Dartmouth, 1948; M.D. Columbia, 1951*
Harald H. Rossi (Physics). *Ph.D., Johns Hopkins, 1942*

Professors of Clinical Radiology

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Associate Clinical Professors

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Assistant Clinical Professors

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Robert A. Phillips, M.D.
Susan M. Tuck, M.D.

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Rehabilitation Medicine

Simon Baruch Professor and Chairman

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Assistant Clinical Professors

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ASSOCIATE IN CLINICAL REHABILITATION MEDICINE
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Danuta Janiszewski, M.D. (at Blythedale Children's Hospital)
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Associate Professor of Clinical Rehabilitation Medicine

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Occupational Therapy

Professor

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Adele G. Edward, M.S.
Nedra P. Gillette, B.S.
Eleanor V. Shelly, B.S.

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Sandra Countee
Laura B. Hoffman
Roberta Roth
Carol A. Shaw, M.A.
Lorna J. Spearman
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R. Laurelee Hawkins
Winifred S. Lom
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Physical Therapy

Professor

Mary E. Callahan (director of program). *R.N., Clinton Hospital, 1937; R.P.T., Posse College, 1940; B.S., New York University, 1950; M.A., Columbia, 1955*

Associate Professors

Ruth Dickinson (associate director of program). *B.S., Russell Sage, 1944; M.A., Columbia, 1947*
Althea M. Jones. *B.S., Panzer College of Physical Education, 1944; M.A., Columbia, 1972*

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Theodore Corbitt, M.A.
Patricia Sullivan, M.A.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY
Margaret Beyda, B.S.
Marion Marx, M.A.B.S.
Georgia Nesbit Reidel, B.S.

ASSISTANTS IN CLINICAL PHYSICAL THERAPY
Ann B. Edgar
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Surgery

Valentine Mott Professor and Johnson & Johnson Distinguished Professor and Chairman

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

At Presbyterian Hospital

Professors

Jose M. Ferrer. *B.A., Princeton, 1934; M.D., Columbia, 1938*
Frank Gump. *B.A., Harvard, 1951; M.D., New York University, 1955*
David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*
Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
Robert B. Hiatt. *B.S., Wilmington, 1938; M.D., Cincinnati, 1942*
Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
John B. Price, Jr. *M.A., Texas, 1948; M.D., Johns Hopkins, 1950*
Thomas V. Santulli. *B.S., Columbia, 1935; M.D., Georgetown, 1939*

Professors of Clinical Surgery

Harold G. Barker. *B.A., Utah, 1939; M.D., Pennsylvania, 1943*
Bard Cosman. *B.A., Columbia, 1952; M.D., 1955*
James R. Malm. *B.A., Princeton, 1949; M.D., Columbia, 1949*
Arthur B. Voorhees, Jr. *B.A., Virginia, 1943; M.D., Columbia, 1946*

Associate Professor

Mark A. Hardy. *B.A., Columbia, 1958; M.D., Albert Einstein, 1962*

Associate Professor of Pathology

Nicole Suciu-Foca. *B.S., Bucharest (Rumania), 1954; M.S., 1960; Ph.D., 1965*

Associate Professors of Clinical Surgery

Frederick O. Bowman. *B.A., North Carolina, 1948; M.D., Pennsylvania, 1952*
Joseph A. Buda. *B.A., Columbia, 1951; M.D., Cornell, 1955*
Carl R. Feind. *B.A., Texas, 1940; M.D., Columbia, 1950*
Alfred M. Markowitz. *B.A., New York University, 1948; M.D., Washington (St. Louis), 1952*
Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*
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Associate Clinical Professors

Hugh Auchincloss, Jr. *B.A., Yale, 1938; M.D., Columbia, 1942*
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David M. Ju. *M.D., National Medical College (Shanghai), 1944; Med.Sc.D., Columbia, 1954*
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John N. Schullinger. *B.A., Princeton, 1951; M.D., Columbia, 1955*
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Senior Research Associate

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Senior Research Associate in Biochemistry

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Richard N. Edie. *B.A., Princeton, 1959; M.D., Columbia, 1965*
Paul Lo Gerfo. *B.S., Rensselaer Polytechnic Institute, 1961; M.S., 1963; M.D., State University of New York (Upstate), 1967*
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Assistant Professors of Clinical Surgery

Robert G. Bertsch. *B.A., Carleton, 1953; M.D., Columbia, 1957*
Shivaji B. Bhonslay, Jr. *M.D., American University of Beirut, 1944*
Ivo P. Janecka. *M.D., Charles (Prague), 1965*

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Assistant Clinical Professors

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INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

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Jerome Spivack, M.D.
John V. Triolo, M.D.
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Professor of Clinical Surgery

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Richard G. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Joseph Ford. *B.A., Harvard, 1942; M.D., Columbia, 1945*
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Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
T. Scudder Winslow, Jr. *B.A., Princeton, 1938; M.D., Cornell, 1942*
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At St. Luke's Hospital

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Professor of Clinical Surgery

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Associate Professor of Microbiology

George A. Hashim. *Ph.D., Columbia, 1967*

Associate Clinical Professors

George E. Green. *B.S., Yale, 1952; M.D., 1965*
W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*
Robert E. McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

Assistant Clinical Professors

Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Conrad G. Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
Haroutane A. Mekhjian. *B.S., American University of Beirut, 1961; M.D., 1965*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*

INSTRUCTORS IN CLINICAL SURGERY
Charles R. Blair, M.D.
Peter B. Cinelli, M.D.
Clayton R. De Haan, M.D.
Peter B. Fodor, M.D.
Philip E. Gordon, M.D.
Leif O. Holgersen, M.D.
Joshua M. Kaplan, M.D.

INSTRUCTORS *(continued)*
Danne R. Lorieo, M.D.
Paul I. Tomljanovich, M.D.
Hiroshi Washio, M.D.

STAFF ASSOCIATE
Mikio Kamiyama, Ph.D.

Urology

Professor and Chairman

John K. Lattimer. *B.A., Columbia, 1935; M.D., 1938; Med. Sc.D., 1943*

At Presbyterian Hospital

Professor of Clinical Urology

Ralph J. Veenema. *B.A., Calvin, 1952; M.D., Jefferson, 1945*

Associate Professor of Clinical Pathology

Myron Tannenbaum. *B.A., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

Associate Professor of Clinical Urology

Aurelio Uson. *M.D., Barcelona (Spain), 1950*

Associate Clinical Professors

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Assistant Professor of Clinical Pathology

Philip Tomashefsky. *Ph.D., New York University, 1969*

Assistant Professors of Clinical Urology

John D. Birkhoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*
Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

Assistant Clinical Professors

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*
Robert R. White. *B.A., Amherst, 1949; M.D., Rochester, 1954*

ASSOCIATE IN CLINICAL UROLOGY
Charles E. Umhey, Jr., M.D.

RESEARCH ASSOCIATE
Stanford Pulrang, M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Elliot L. Cohen, M.D.
Frederick S. Dick, M.D.
Leonard J. Rudin, M.D.

ASSISTANTS IN CLINICAL UROLOGY
Luis M. Abreu, M.D.
John C. Byrne, M.D.
Robert L. Pickens, M.D.

SENIOR STAFF ASSOCIATE
Margaret Willhite, M.D.

SPECIAL LECTURER
Bruno Fingerhut, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor of Surgery

Rodman D. Carter. *B.A., Harvard, 1950; M.D. Columbia, 1954*

INSTRUCTOR IN CLINICAL UROLOGY
Bruce MacDonald, M.D.

At Harlem Hospital

Assistant Clinical Professor

Harold A. Garnes. *B.S., College of the City of New York, 1944; M.D., Howard, 1951*

At Overlook Hospital

ASSOCIATES IN CLINICAL UROLOGY
Kenneth L. Day, M.D.
Pascal A. Pironti, M.D.

ASSOCIATES *(continued)*
Joseph S. Ritter, M.D.
Morey Wosnitzer, M.D.

At Roosevelt Hospital

Associate Clinical Professor

Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

INSTRUCTOR IN CLINICAL UROLOGY
James W. Vastola, M.D.

At St. Luke's Hospital

Associate Clinical Professor

Russell W. Lavengood, Jr. *B.A., St. Joseph's (Indiana), 1947; M.D., Louisville, 1951*

Assistant Professor of Clinical Urology

Manuel Fernandes. *M.D., Coimbra (Portugal), 1956*

Assistant Clinical Professor

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

ASSOCIATE IN CLINICAL UROLOGY
Arumbi P. Subramaniam, M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Philip C. Cea, M.D.
Harry S. David., M.D.
Alfred F. Fretz, M.D.
Waleed G. Maloof, M.D.
Constantine Photos, M.D.

INSTRUCTORS *(continued)*
William R. Pitts, Jr., M.D.
Joseph D. Putignano, M.D.
Alexander Sotiropoulos, M.D.
Rudolph D Talarico, M.D.
Pellegrino J. Tozzo, M.D.

ASSISTANT IN CLINICAL UROLOGY
Abas Rezvani, M.D.

First-Year Postgraduate Appointments: Class of 1978

Aberizk, William. J. *New England Deaconess Hospital, Boston, Mass.* Medicine
Addonizio, Gerard C. *Yale-New Haven Medical Center, New Haven, Conn.* Psychiatry
Albertsen, Peter C. *New England Deaconess Hospital, Boston, Mass.* Surgery
Alfano, Francis D. *Bronx Municipal Hospital Center, Bronx, N.Y.* Medicine
Allen, Julian L. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Arnold, Linda J. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Arzeno, George *St. Luke's Hospital Center, New York, N.Y.* Medicine
Ashwell, Jonathan D. *Presbyterian Hospital, New York, N.Y.* Medicine
August, Jeremy *Yale-New Haven Medical Center, New Haven, Conn.* Psychiatry
Barnes, Henrietta N. *Cambridge Hospital, Boston, Mass.* Medicine
Benvenisty, Alan I. *Presbyterian Hospital, New York, N.Y.* Surgery
Berlinsky, Elaine C. *Boston City Hospital, Boston, Mass.* Medicine
Blatt, Charles M. *Beth Israel Hospital, Boston, Mass.* Medicine
Bleicher, Robert H. *Northwestern University Graduate Clinical Training Program, Chicago, Ill.* Medicine
Bohler, Henry C. *St. Luke's Hospital Center, New York, N.Y.* Obstetrics and Gynecology
Brauntuch, Glenn R. *Roosevelt Hospital, New York, N.Y.* Medicine
Brittain, David C. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Cantor, Richard S. *Bronx Municipal Hospital Center, Bronx, N.Y.* Medicine
Capone, Robert A. *Presbyterian Hospital, New York, N.Y.* Medicine
Carpenter, Duncan B. *Boston City Hospital, Boston, Mass.* Medicine
Chen, Clarence L. *The New York Hospital, New York, N.Y.* Psychiatry
Cohen, Mark W. *University of Michigan Affiliated Hospitals, Ann Arbor, Mich.* Pediatrics
Comstock, Marcia L. *Overlook Hospital, Summit, N.J.* Flexible
Daly, Jennifer S. *University of Michigan Affiliated Hospitals, Ann Arbor, Mich.* Medicine
Daniel, Samuel J. *Roosevelt Hospital, New York, N.Y.* Medicine
Davidson, Leslie L. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Dewar, Jean M. *Roosevelt Hospital, New York, N.Y.* Surgery
DiSalvo, Donald N. *Medical Center Hospital of Vermont, Burlington, Vt.* Medicine
Donnelly, Christine M. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Edgerton, Ada B. *Lenox Hill Hospital, New York, N.Y.* Surgery
Fein, Alan B. *Grady Memorial Hospital, Atlanta, Ga.* Medicine
Fithian, Ellen C. *Roosevelt Hospital, New York, N.Y.* Medicine
Fithian, Thomas E. *Presbyterian Hospital, New York, N.Y.* Surgery
Flood, Stephen J. *North Carolina Memorial Hospital, Chapel Hill, N.C.* Orthopedic Surgery
Fogelquist, Jan E. *Roosevelt Hospital, New York, N.Y.* Medicine
Frenk, Ellen *Boston City Hospital, Boston, Mass.* Medicine
Friedman, Joseph H. *Mount Sinai Hospital, New York, N.Y.* Medicine
Gordon, Charles R. *Duke University Medical Center, Durham, N.C.* Pediatrics
Gyi, Bo *University of Minnesota Hospitals, Minneapolis, Minn.* Surgery
Hansen, Darcyjeanne *Georgetown University Hospital, Washington, D.C.* Medicine
Heiken, Jay P. *Grady Memorial Hospital, Atlanta, Ga.* Medicine
Henrikson, Karl E. *New England Deaconess Hospital, Boston, Mass.* Surgery
Herter, Geoffrey E. *Yale-New Haven Medical Center, New Haven, Conn.* Surgery
Hilton, Eileen *Bronx Municipal Hospital Center, Bronx, N.Y.* Medicine
Himmelstein, David U. *Highland General Hospital, Oakland, Calif.* Medicine
Hoagland, Peter M. *Massachusetts General Hospital, Boston, Mass.* Medicine

Hollander, Ellen L. *Overlook Hospital, Summit,. N.J.* Flexible
Hritz, Ann Jo *University of California Hospitals, San Francisco, Calif.* Medicine
Hutt, Cheryl S. *Montefiore Hospital Center, Bronx, N.Y.* Medicine
Hyams, David M. *University of California Hospitals, San Francisco, Calif.* Surgery
Jones, Ellen E. *University Hospitals, Boston, Mass.* Medicine
Jordan, James L. *University of California (Irvine) Affiliated Hospitals, Orange, Calif.* Family Practice
Kaunitz, Andrew M. *Northwestern University Graduate Clinical Training Program, Chicago, Ill.* Obstetrics and Gynecology
Kerin, Douglas W. *Los Angeles County-Harbor General Hospital, Torrance, Calif.* Diagnostic Radiology
Kertzner, Robert M. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Kesselbrenner, Michael B. *Children's Hospital of Northern California, Oakland, Calif.* Pediatrics
Kim, Ben *Yale-New Haven Medical Center, New Haven, Conn.* Surgery
Koppel, Barbara S. *Montefiore Hospital, Pittsburgh, Pa.* Medicine
Kopynec, Bohdan W. *United States Air Force Wilford Hall, Lackland Air Force Base, Tex.* Medicine
Krilov, Leonard R. *Johns Hopkins Hospital, Baltimore, Md.* Pediatrics
LaBove, Phillip S. *Hartford Hospital, Hartford, Conn.* Medicine
Lander, Richard H. *St. Vincent's Hospital, New York, N.Y.* Flexible
Langa, Victoria M. *Presbyterian Hospital, New York, N.Y.* Surgery
Larmon, Steven S. *Dartmouth Affiliated Hospitals, Hanover, N.H.* Medicine
Lauer, Robert C. *Presbyterian Hospital, New York, N.Y.* Medicine
Lawrence, Denise E. *Overlook Hospital, Summit, N.J.* Flexible
Lemberg, Steven *Cedars-Sinai Medical Center, Los Angeles, Calif.* Psychiatry
Lessing, David *Los Angeles County-Harbor General, Torrance, Calif.* Surgery
Levine, Stewart *Georgetown University Hospital, Washington, D.C.* Medicine
Lim, Suzanne L. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Magidson, Jory G. *University of California Hospital, Los Angeles, Calif.* Pathology
Manning, Reginald E. *Roosevelt Hospital, New York, N.Y.* Surgery
Marchand, Babette *Temple University Hospitals, Philadelphia, Pa.* Medicine
Margulis, Elynne B. *Hospital of the University of Pennsylvania, Philadelphia, Pa.* Obstetrics and Gynecology
Meisler, William J. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* Flexible
Meyers, Peter K. *United States Navy, Naval Regional Medical Center, San Diego, Calif.* Medicine
Melnick, David A. *The New York Hospital, New York, N.Y.* Medicine
Monsanto, Enrique H. *New York University Medical Center, New York, N.Y.* Surgery
Mossberg, Jane E. *St. Vincent's Hospital, New York, N.Y.* Flexible
Murphy, William I. *Children's Medical Center, Boston, Mass.* Pediatrics
Nagelberg, Steven B. *University of California Hospitals, San Francisco, Calif.* Medicine
Nakano, George J. *Children's Hospital, San Francisco, Calif.* Medicine
Nepola, James V. *Roosevelt Hospital, New York, N.Y.* Surgery
Newmark, Jonathan *Roosevelt Hospital, New York, N.Y.* Medicine
Ostow, Abigail R. *Bronx Municipal Hospital Center, Bronx, N.Y.* Pediatrics
Owens, Lance S. *University of California Hospital, Los Angeles, Calif.* Surgery
Paetzold, Nancy M. *Presbyterian Hospital, New York, N.Y.* Medicine
Peart, Harold T. *Martin Luther King Hospital, Los Angeles, Calif.* Obstetrics and Gynecology
Peters, William P. *Peter Bent Brigham Hospital, Boston, Mass.* Medicine
Phillips, Arnold M. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Pogany, Anton C. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Propper, Michael S. *St. Vincent's Hospital, New York, N.Y.* Surgery
Puleo, Peter R. *Baylor College Affiliated Hospitals, Houston, Tex.* Medicine
Rak, Ihor W. *The Children's Hospital, Philadelphia, Pa.* Pediatrics

Rattner, Susan L. *Presbyterian Hospital, New York, N.Y.* Medicine
Reife, Ross A. *Baylor College Affiliated Hospitals, Houston, Tex.* Flexible
Reynard, Michael *Los Angeles County-Harbor General Hospital, Torrance, Calif.* Medicine
Riester, Carolyn E. *The New York Hospital, New York, N.Y.* Medicine
Roberts, Richard S. *North Carolina Baptist Hospital, Winston-Salem, N.C.* Pediatrics
Rock, Ira G. *Case Western Reserve University Hospitals, Cleveland, Ohio.* Obstetrics and Gynecology
Roisman, Jeffrey A. *Stanford University Hospital, Stanford, Calif.* Pediatrics
Rosecan, Jeffrey S. *Lenox Hill Hospital, New York, N.Y.* Medicine
Rosen, Barry L. *Roosevelt Hospital, New York, N.Y.* Medicine
Rosenberg, Robert A. *University of Chicago Hospitals and Clinics, Chicago, Ill.* Medicine
Rosenthal, Robert L. *University of Texas Southwestern Affiliated Hospitals, Dallas, Tex.* Medicine
Ruby, Steven T. *Presbyterian Hospital, New York, N.Y.* Surgery
Salmon, Jane E. *The New York Hospital, New York, N.Y.* Medicine
Santulli, Thomas V. *Children's Medical Center, Boston, Mass.* Pediatrics
Schackman, Lynn D. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Schaffner, Andrea *Yale-New Haven Medical Center, New Haven, Conn.* Medicine
Schanck, Carolyn A. *Johns Hopkins Hospital, Baltimore, Md.* Pediatrics
Schwartz, Lawrence A. *Overlook Hospital, Summit, N.J.* Flexible
Sharp, Thomas G. *University of Michigan Affiliated Hospitals, Ann Arbor, Mich.* Surgery
Sherwood, James A. *Duke University Medical Center, Durham, N.C.* Medicine
Sibley, Robert E. *Overlook Hospital, Summit, N.J.* Flexible
Silver, Daniel H. *Cedars-Sinai Medical Center, Los Angeles, Calif.* Medicine
Soffer, Mark J. *Presbyterian Hospital, New York, N.Y.* Medicine
Soong, Hunson. *Mary Imogene Bassett Hospital, Cooperstown, N.Y.* Medicine
Sporn, Aaron A. *Roosevelt Hospital, New York, N.Y.* Surgery
Stein, Bruce E. *New York University-Veterans Administration Hospital, New York, N.Y.* Medicine
Stein, Doulgas G. *University of South Florida Affiliated Hospitals, Tampa, Fla.* Surgery
Steiner, Mark E. *Massachusetts General Hospital, Boston, Mass.* Surgery
Stern, Elizabeth K. *Bronx Municipal Hospital Center, Bronx, N.Y.* Pediatrics
Stetz, Dean E. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Stiff, Jacqueline E. *University of California Hospital, Los Angeles, Calif.* Pediatrics
Stricker, Raphael B. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Tergis, Dorian C. *Medical University of South Carolina Hospitals, Charleston, S.C.* Family Practice
Thompson, Mindy J. *New York Hospital-Westchester Division, White Plains, N.Y.* Psychiatry
Trommer, Barbara L. *Mount Sinai Hospital, New York, N.Y.* Pediatrics
Troyer, Claudette H. *Montefiore Hospital Center, New York, N.Y.* Pediatrics
Tucker, James N. *Hospitals of the University Health Center, Pittsburgh, Pa.* Pediatrics
Velazquez, Nelvis. *University of Miami Affiliated Hospitals, Miami, Fla.* Medicine
Versfelt, Mary G. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Wagman, Lawrence D. *Medical College of Virginia Hospital, Richmond, Va.* Surgery
Wang, Victoria A. *The New York Hospital, New York, N.Y.* Medicine
Ward, Robert J. *St. Vincent's Hospital, New York, N.Y.* Surgery
Warshavsky, Calvin R. *Overlook Hospital, Summit, N.J.* Flexible
Weitzman, Stephen M. *New England Deaconess Hospital, Boston, Mass.* Surgery
White, John V. *Presbyterian Hospital, New York, N.Y.* Surgery
Wilking, Andrew P. *Presbyterian Hospital, New York, N.Y.* Pediatrics
Winkler, Barbara A. *Presbyterian Hospital, New York, N.Y.* Obstetrics and Gynecology
Winkler, William P. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Wolinsky, David G. *St. Luke's Hospital Center, New York, N.Y.* Medicine
Young, Henry A. *St. Luke's Hospital Center, New York, N.Y.* Surgery
Ziebur, Martha A. *Overlook Hospital, Summit, N.J.* Family Practice

Student Roster: Class of 1979

Aisen, Paul Stephen Scarsdale, N.Y. *B.A., Harvard, 1975*
Alexander, David Todd Matawan, N.J. *B.S., Yale, 1975*
Aranow, Michael Henry Hastings-on-Hudson, N.Y. *B.A., Harvard, 1975*
Arden, James Richard New York, N.Y. *B.A., Columbia, 1971*
Asherman, Steven Michael New York, N.Y. *B.A., Columbia, 1975*
Barry, M. Anita Towson, Md. *B.S., Georgetown, 1975*
Barry-Carlson, Elizabeth Glen Cove, N.Y. *B.A., Pennsylvania, 1973*
Barton, Brooke Millon New York, N.Y. *B.A., Princeton, 1975*
Bassett, Mary Travis New York, N.Y. *B.A., Radcliffe, 1974*
Becker, Mary Alice Bronx, N.Y. *B.S., Mount Saint Vincent, 1966*
Bernstein, Debra Jean Plainview, N.Y. *B.S., SUNY (Stony Brook), 1975*
Besserup, Robert S. Queens Village, N.Y. *B.S., Queens, 1975*
Bitetti, Janice Marie Huntington, N.Y. *B.S., Wellesley, 1975*
Bluh, Donald Gary Long Island City, N.Y. *B.A., Columbia, 1973*
Blumenthal, Celia Beth New York, N.Y. *B.A., Barnard, 1974*
Bogdan, Susan Lee Lake Mohegan, N.Y. *B.S., SUNY (Cortland), 1967; M.S., Sarah Lawrence, 1975*
Boucher, Ralph Albert Flushing, N.Y. *B.A., Yale, 1975*
Boxhill, Agnes Mary New York, N.Y. *B.S., City College of New York, 1974*
Brandt-Rauf, Paul W. Poughkeepsie, N.Y. *Eng.Sc.D., Columbia, 1974*
Brin, Mitchell Francis Livingston, N.J. *B.A., Pennsylvania, 1975*
Cadet, Jean Lud Brooklyn, N.J. *B.S., Brooklyn, 1975*
Cafferty, Maureen Sarah Jackson Heights, N.Y. *B.S., St. John's (New York), 1975*
Cali, Michael Dennis Jamestown, N.Y. *B.A., Rochester, 1975*
Camras, Carl Bruce Glencoe, Ill. *B.A., Yale, 1974*
Chodos, Joel Ethan Bronx, N.Y. *B.A., Columbia, 1975*
Cogen, Fran R. Syossett, N.Y. *B.S., Cornell, 1975*
Conway, Stephen Robert Hartford, Conn. *B.A., Amherst, 1975*
Craig, Michael Joseph New Milford, N.J. *B.A., Columbia, 1975*
Creger, Philip Sterne Stanford, Calif. *B.A., Stanford, 1975*
Csete, Marie Elizabeth Colonia, N.J. *B.A., Princeton, 1975*
DeFelippo, Noel Peter Brooklyn, N.Y. *B.S., SUNY (Stony Brook), 1975*
DiBiase, John Joseph Bronx, N.Y. *B.E., Cooper Union, 1975*
Diefenbach, William Paul Southampton, N.Y. *B.A., Columbia, 1972*
Edinburgh, David Miles Great Neck, N.Y. *B.S., Massachusetts Institute of Technology, 1975*
Evans, Walter Francis II Warwick, N.Y. *B.A., Dartmouth, 1975*
Flick, Jonathan Andrew Roslyn Heights, N.Y. *B.S., Yale, 1975*
Forem, Sandra Lee Bronx, N.Y. *B.A., Barnard, 1975*
Francomano, Thomas Bronx, N.Y. *B.A., New York University, 1973*
Frankel, Etta Brener Shreveport, La. *B.S., Washington (St. Louis), 1967; M.Ed., Columbia, 1971*
Gilbard, Jeffrey Paul Roslyn, N.Y. *B.A., Brown, 1975*
Gordon, Kimberly Woodbridge, Conn. *B.A., Smith, 1975*
Grelsamer, Ronald Paul New York, N.Y. *B.A., B.S., Brown, 1975*
Harary, Albert Maurice West Palm Beach, Fla. *B.A., Harvard, 1975*
Holmberg, Scott Dewey Canton, Mass. *B.A., Harvard, 1971*
Horowitz, Nina Ruth Silver Spring, Md. *B.A., Yale, 1975*
Hradesky, Christine Louise Clearwater, Fla. *B.A., Cornell, 1973*
Jacobs, Michael Aaron Short Hills, N.J. *B.A., Bowdoin, 1975*
Jacobson, Ira M. Brooklyn, N.Y. *B.S., Yale, 1975*
Johnson, Lawrence Philip Ridgewood, N.J. *B.A., Dartmouth, 1975*
Jozefowicz, Ralph Francis Woodside, N.Y. *B.A., Johns Hopkins, 1975*

Kahn, David Alan Great Neck, N.Y. *B.A., Haverford, 1975*
Kahn, Jeffrey Paul Scarsdale, N.Y. *B.A., Swarthmore, 1975*
Katz, Martha Ellen New York, N.Y. *B.A., Barnard, 1974*
Kelsey, Peter Baker Rye, N.Y. *B.A., Princeton, 1975*
Klutchko, Lynn Carol Massapequa Park, N.Y. *B.A., Yale, 1975*
Knapp, Albert Bruce New York, N.Y. *B.A., Columbia, 1975*
Knox, Karen Burnet Wilmington, Del. *B.A., Harvard, 1975*
Korn, Jane Ellen Brooklyn, N.Y. *B.A., Michigan, 1975*
Kosovsky, Karen Ann New York, N.Y. *B.A., Brown, 1975*
Kucharchik, Thomas Farmingdale, N.Y. *B.A., Harvard, 1975*
Kudlak, Theresa Tatiana Brooklyn, N.Y. *B.A., Barnard, 1971*
Kurth, Donald James, Jr. Westwood, N.J. *B.A., Columbia, 1975*
Kwiatkowski, David Joseph Middleville, N.Y. *B.S., California Institute of Technology, 1972*
Labinson, Robert Merrill Fort Lee, N.J. *B.A., Rutgers, 1975*
Lamm, Joel Lewis Roslyn Harbor, N.Y. *B.A., Brandeis, 1975*
Lee, David Kuo-Ping Poughkeepsie, N.Y. *B.A., Yale, 1975*
Lehman, Lawrence Brad Little Neck, N.Y. *B.A., Hofstra, 1975*
Leibowitz, Steven Philadelphia, Pa. *B.A., Brandeis, 1975*
Leventhal, Jeanne Louise Berkeley, Calif. *B.A., California (Berkeley), 1975*
Levitan, Sara Anne New York, N.Y. *B.A., Hunter, 1975*
Li, Lawrence Roslyn, N.Y. *B.A., Harvard, 1975*
Lidofsky, Steven David Brooklyn, N.Y. *B.A., Columbia, 1975*
Linder, Barbara Laura Bronx, N.Y. *B.S., Cornell, 1975*
Liskin, Barbara Ann Englewood, N.J. *B.A., Smith, 1974*
Litsky, Alan Steven New Britain, Conn. *B.A., Princeton, 1975*
Lowe, Franklin Charles New York, N.Y. *B.A., Princeton, 1975*
McCrimons, Daniel Everett St. Albans, N.Y. *B.A., Harvard, 1975*
McDonald, Patricia Ann Chicago, Ill. *B.A., Dartmouth, 1975*
Madoff, Robert David Newton Centre, Mass. *B.A., Harvard, 1975*
Manevitz, Alan Z. A. Brooklyn, N.Y. *B.S., Brooklyn, 1975*
Marchese, Ann Curtis Penfield, N.Y. *B.A., Rutgers, 1975*
Mark, Laurence Peter New York, N.Y. *B.S., Harvey Mudd, 1975*
Marks, Elizabeth Leah New York, N.Y. *B.A., Radcliffe, 1974*
Martin, Eva Berkeley, Calif. *B.A., California (Berkeley), 1975*
Matsuba, Howard Mitsuyuki Honolulu, Hawaii *B.A., Hawaii, 1974*
Mercado, Nydia Esther New York, N.Y. *B.A., Hunter, 1975*
Merkow, Robert Lewis Madison, Wis. *B.A., Wisconsin, 1975*
Miller, Andrew David Allentown, Pa. *B.A., Princeton, 1975*
Miller, Ronald William Davenport, Iowa *B.A., Macalester, 1968*
Morrison, David Scott Woonsocket, R.I. *B.A., Holy Cross, 1975*
Muncaster, Richard Bernard Woodstown, N.J. *B.A., Yale, 1975*
Orell, Jeffrey Allan Baldwin, N.Y. *B.A., Columbia, 1974*
Orenstein, Harry Herman Mystic, Conn. *B.A., Harvard, 1975*
Oshiyoye, Adekunle E. Lagos, Nigeria *B.S., Howard, 1974*
Packer, Michael Gordon Bristol, R.I., *B.A., Harvard, 1975*
Palmisano, Joanne Joyce Union N.J. *B.S., Maryland, 1974*
Peyser, Karen Edna New York, N.Y. *B.A., Barnard, 1973*
Polan, H. Jonathan Merion, Pa. *B.A., Princeton, 1974*
Pollack, David Mark Cedarhurst, N.Y. *B.A., Brown, 1975*
Pollack, Geoffrey Jay Whitestone, N.Y. *B.A., Columbia, 1975*
Pollack, Steven Allen Whitestone, N.Y. *B.A., Columbia, 1975*
Purcell, Ralph N. New York, N.Y. *B.A., Columbia, 1975*
Quarnstrom, Thomas James St. Clair Shores, Mich. *B.A., Columbia, 1975*
Raiken, Deborah Faye Williamsville, N.Y. *B.A., Brandeis, 1974*
Rayport, Stephen Gregory Perrysburg, Ohio *B.A., Harvard, 1975*

Ronner, Hilary Jane Bronx, N.Y. *B.A., Barnard, 1975*
Ross, Alan Barry Union, N.J. *B.A., Cornell, 1972*
Roth, Philip Brooklyn, N.Y. *B.A., Columbia, 1975*
Rubinstein, Alina Anna New York, N.Y. *B.A., New York University, 1967*
Russo, Paul Ithaca, N.Y. *B.A., Colgate, 1975*
Satlin, Lisa Michelle White Plains, N.Y. *B.A., Mount Holyoke, 1975*
Scerbo, James Alexander Morris Plains, N.J. *B.A., Bucknell, 1975*
Schlesinger, Mark Paul Cranford, N.J. *B.A., Rutgers, 1975*
Schubert, Armin Reichenau bei Linz, Austria *B.S., Yale, 1975*
Schwartz, Harold I. New York, N.Y. *B.A., Queens, 1969*
Sciascia, Thomas Richard Buffalo, N.Y. *B.A., Massachusetts Institute of Technology, 1975*
Seaman, Cheryl Tenafly, N.J. *M.A., Chicago*
Sebag, Jerry Flushing, N.Y. *B.A., Columbia, 1973*
Seitz, William Henry, Jr. Staten Island, N.Y. *B.S., Fairfield, 1971*
Shapiro, David Matthew Chicago, Ill. *B.A., Princeton, 1975*
Shea, Steven J. C. New York, N.Y. *B.A., Harvard, 1968*
Siegel, Robert Errol Flushing, N.Y. *B.A., Queens, 1975*
Siegfried, Virginia Ann Redwood City, Calif. *B.S., Stanford, 1975*
Silbert, Glenn R. Woodbury, N.Y. *B.S., Columbia, 1975*
Sims, Kathie B. Wellesley, Mass. *B.A., Middlebury, 1971*
Sims, Nathaniel Merriman South Burlington, Vt. *B.A., Harvard, 1975*
Stackhouse, Thomas G. Hamilton Square, N.J. *B.S., Muhlenberg, 1975*
Stark, Barbara J. Garden City, N.Y. *B.A., Smith, 1975*
Stein, H. David Newton, Mass. *B.A., Brandeis, 1975*
Sternfeld, Nancy Lee Brooklyn, N.Y. *B.A., Carleton, 1972*
Stevens, Laurie Ann Palo Alto, Calif. *B.A., Yale, 1975*
Stork, Linda Claudette Englewood, N.J. *B.A., Yale, 1974*
Struthers, Charlene Middleton Livermore, Calif. *B.A., Stanford, 1975*
Stuchiner, David Jon New York, N.Y. *B.A., Sarah Lawrence, 1975*
Sulis, Carol Ann Lynnfield, Mass. *B.A., Wellesley, 1973*
Sybert, Peter Egon Walnut Creek, Calif. *B.A, California (Berkeley), 1975*
Szpaizman, Sergio Bronx, N.Y. *B.A., Lehman, 1974*
Taus, Richard Howard Bronx, N.Y. *B.A., Yale, 1975*
Thane, Michael William Harpersfield, N.Y. *B.S., Cornell, 1975*
Werner, Morgan Simon Scarsdale, N.Y. *B.A., Colorado, 1975*
Wissel, Paul Stephen Scarsdale, N.Y. *B.S., Baldwin-Wallace, 1974*
Witzel, Phyllis Beth Elizabeth, N.J. *B.A., Brandeis, 1975*
Wormser, Andrew Charles New York, N.Y. *B.A., Princeton, 1975*
Yacovone, Joseph Fred Elmhurst, N.Y. *B.A., Columbia, 1975*
Zatzkis, Mark Asher West Orange, N.J. *B.A., Harvard, 1975*
Zolnik, Lawrence Anthony Meriden, Conn. *Columbia*
Zuflacht, Richard Neil Old Westbury, N.Y. *B.A., Williams, 1975*

Student Roster: Class of 1980

Ahlborn, Thomas Nesbitt Wilmette, Ill. *B.A., Harvard, 1975*
Allan, Anne Elizabeth Wilmington, Del. *B.A., Johns Hopkins, 1976*
Anderson, Nancy Ann New York, N.Y. *B.A., Barnard, 1976*
Anthony, Kent Ervin Cleveland, Tenn. *B.A., Columbia, 1976*
Apfelbaum, Terri Francine New York, N.Y. *B.A., Barnard, 1976*
Appel, Rena Lee New York, N.Y. *B.A., Barnard, 1972*
Bello, Jacqueline Anne Rye, N.Y. *B.A., Dartmouth, 1976*
Berkeley, Hope Ann Jersey City, N.J. *B.A., Barnard, 1972*
Bernstein, Carol Ann Holywood, Fla. *B.A., Bryn Mawr, 1969*

Blumenkehl, Mark Lewis Paterson, N.J. *B.A., Brooklyn College, 1976*
Boakye-Adjei, Oheneba Brooklyn, N.Y. *B.S., Brooklyn College, 1976*
Bogen, Craig Alan Coram, N.Y. *B.A., Pennsylvania, 1976*
Bransford, Kent Jackson Anaheim, Calif. *B.A., California (Berkeley), 1976*
Brudney, Karen Florence Cambridge, Mass. *B.A., Yale, 1973*
Cartelli, Nancy Ann Bronx, N.Y. *B.A., Hunter, 1976*
Casper, Theodore Pearl River, N.Y. *B.A., Cornell, 1976*
Chernov, Claudia Ruth Newton, Mass. *B.A., Barnard, 1975*
Chow, John Hei-Sing Corona, N.Y. *B.S., Columbia, 1976*
Cohen, David Eliot Teaneck, N.J. *B.A., Wesleyan, 1976*
Czaja, Mark James Natick, Mass. *B.A., Yale, 1976*
Danso, Alex Kingsley New York, N.Y. *B.A., Harvard, 1976*
Davey, Richard Thomas Dix Hills, N.Y. *B.S., Massachusetts Institute of Technology, 1976*
DeAngelis, Lisa Marie New Haven, Conn. *Wellesley*
Deland, Jonathan Thorndike Darien, Conn. *B.A., Harvard, 1976*
Delaney, Kathleen Ann Los Angeles, Calif. *B.S., California (Irvine), 1972*
Dennison, Allen Mansfield Bronx, N.Y. *B.A., Harvard, 1975*
Dillon, Peter Riverside, Conn. *B.S., Harvard, 1976*
Dolinsky, Paul Arthur Hartford, Conn. *B.S., Tufts, 1976*
Downey, Richard Stuart New York, N.Y. *B.A., Columbia, 1976*
Dubin, Leslie Beryl New York, N.Y. *B.A., Princeton, 1976*
Dwosh, Jack White Sulfur Springs, N.Y. *B.A., Cornell, 1976*
Ecker, Hendrik Michel Philadelphia, Pa. *B.A., Princeton, 1975*
Engler, Alan Michael Weston, Mass. *B.A., Yale, 1976*
Epner, Elliot M. North Woodmere, N.Y. *B.A., Wesleyan, 1976*
Epstein, Joel Harvey Albertson, N.Y. *B.A., Sarah Lawrence, 1976*
Fakharzadeh, Frederick F. Teaneck, N.J. *B.A., Cornell, 1976*
Farrell, Matthew Michael Bronx, N.Y. *B.S., Manhattan, 1974*
Fehrs, Laura J. Armonk, N.Y. *B.A., Kirkland, 1976*
Feiman, Nancy Beth New York, N.Y. *B.A., Yale, 1976*
Feller, Matthew Frederick Bayside, N.Y. *B.S., Columbia, 1976*
Fisher, William A. Bantam, Conn. *B.S., Yale, 1976*
Fithian, Eileen Marie Lititz, Pa. *B.A., Pittsburgh, 1972*
Flamm, Michael Jay New York, N.Y. *B.A., Yale, 1976*
Fox, Joyce Ellen New York, N.Y. *B.A., Bryn Mawr, 1976*
Fox, Susan C. New York, N.Y. *B.S., Ohio State, 1971*
Friedmann, Martin Lewis North Salem, N.Y. *B.A., Yale, 1973*
Gardine, Robert Louis Brooklyn, N.Y. *B.A., Columbia, 1976*
Geddes, Anne Caroline Santa Ana, Calif. *B.A., Oberlin, 1976*
Gelfand, Janice Marcy Briarcliff Manor, N.Y. *B.S., Cornell, 1975*
Geller, Peter Levine Brookside, N.J. *B.A., Harvard, 1971*
Genkins, Steven Mark New York, N.Y. *B.A., Yale, 1976*
Geraci, Kira Antonia Malverne, N.Y. *B.A., Adelphi, 1976*
Goland, Robin Stephanie Skokie, Ill. *B.A., Radcliffe, 1976*
Graney, John Francis Swarthmore, Pa. *B.A., Swarthmore, 1973*
Griffin, Patrick Herbert Tulsa, Okla. *B.A., Columbia, 1976*
Grundfest, Warren Scott Belleville, N.J. *B.A., Swarthmore, 1975*
Halio, Joel Henry Brooklyn, N.Y. *B.A., Columbia, 1974*
Hamm, Peter Gerard Washington, D.C. *B.A., Princeton, 1976*
Handlin, David Stephen North Woodmere, N.Y. *B.A., Harvard, 1976*
Handwerger, Sandra Dee N. Bellmore, N.Y. *B.A., Vassar, 1976*
Hardy, Howard Wesley III Washington, D.C. *B.A., Harvard, 1976*
Harris, David Alan Beverly Hills, Calif. *B.S., Yale, 1976*
Herbert, Robert Alan Scarsdale, N.Y. *B.A., Columbia, 1976*
Hollenberg, James Paul Great Neck, N.Y. *B.A., Harvard, 1976*

Hotes, Richard Eric West Hartford, Conn. *B.S., Trinity, 1976*
Howell, John Taylor III Cold Spring Harbor, N.Y. *B.S., Princeton, 1976*
Hurwitz, Samuel Michael Hamden, Conn. *B.A., Columbia, 1976*
Jacobson, Wendy Nan Scarsdale, N.Y. *B.A., Wesleyan, 1976*
Kawata, Carol Lynn Los Angeles, Calif. *B.A., Stanford, 1976*
Kiest, Curtis Alan Portland, Ore. *B.A., Harvard, 1976*
Kumaki, David James Dolton, Ill. *B.A., Chicago, 1976*
Langendorf, Frederick New York, N.Y. *B.A., Harvard, 1973*
La Pook, Jonathan David Great Neck, N.Y. *B.S., Yale, 1975*
Lauderdale, Bradley Tenafly, N.J. *B.A., Harvard, 1976*
Lee, Dennis Elliott Rochester, N.Y. *B.S., Brown, 1976*
Leff, Steven Russell Flushing, N.Y. *B.A., Columbia, 1976*
Legant, Paul Morris Tempe, Ariz. *B.A., Whittier, 1970*
Levey, Meryl Anne Bronx, N.Y. *B.S., Lehman, 1976*
Levin, Daniel H. Jackson Heights, N.Y. *B.A., Columbia, 1976*
Lewis, Barbara Ann Shorewood, Wis. *B.A., Wisconsin, 1975*
Lipkin, Alan Frederick Bayside, N.Y. *B.A., Rochester, 1976*
Lipschitz, Sherman Scott Brooklyn, N.Y. *B.A., Columbia, 1976*
Lipson, Mindy Ann St. Paul, Minn. *B.S., Massachusetts Institute of Technology, 1976*
Lurio, Joseph G. Dobbs Ferry, N.Y. *B.A., Columbia, 1976*
Lyle, Henry Richard Nutting Lake, Mass. *B.A., Harvard, 1976*
McCann, Peter Damian New York, N.Y. *B.A., Columbia, 1975*
Macchi, Paul J. Westchester, N.Y. *B.A., Columbia, 1976*
McCluskey, Leo Francis West Paterson, N.J. *B.S., Boston, 1976*
Mackenzie, Jane Atkinson Greenfield, N.H. *B.S., Brown, 1976*
McKinley, George Franklin Glasgow, Ky. *B.A., Louisville, 1976*
Malin, Barnet David Beverly Hills, Calif. *B.A., Brown, 1976*
Manelis, Jocelyn Beth Fall River, Mass. *B.A., Wellesley, 1976*
Markowitz, Steven Barnard West Hartford, Conn. *B.A., Yale, 1975*
Maxwell, Celia J. New York, N.Y. *B.S., Hunter, 1973*
Mazzeo, Vincent Paul Brookville, N.Y. *B.A., Columbia, 1976*
Moley, Jeffrey Fletcher Quogue, N.Y. *B.A., Harvard, 1976*
Morris, Valery Lois New Milford, N.J. *B.A., Princeton, 1976*
Murphy-Chutorian, Douglas Roger Queens, N.Y. *B.S., Columbia, 1976*
Navia, Bradford Armando Ridgewood, N.J. *B.A., Columbia, 1976*
Newman, Bernard Patrick III Nanuet, N.Y. *B.A., Williams, 1976*
Nunez, Domingo C. New York, N.Y. *B.A., Columbia, 1976*
O'Connell, Genevieve Cecilia Waterbury, Conn. *B.A., Connecticut, 1972*
O'Laughlin, Martin Pius Kansas City, Mo. *B.A., Harvard, 1976*
Oliver, Dennis Carey Delhi, N.Y. *B.S., Georgetown, 1976*
Orentriech, David Scott New York, N.Y. *B.S., Hobart, 1976*
Pankewycz, Oleh George New Brunswick, N.J. *B.S., Rutgers, 1976*
Paradis, Marc Andre Belmont, Mass. *B.A., Holy Cross, 1976*
Parnes, Anita Lynn New York, N.Y. *B.A., Radcliffe, 1976*
Paul, Matthew David Teaneck, N.J. *B.A., Wesleyan, 1975*
Pfeffer, Sondra Jane New York, N.Y. *B.A., Barnard, 1976*
Quevedo, Jonathan Paul Bronx, N.Y. *B.S., Fordham, 1976*
Radin, Arthur Irwin Bronx, N.Y. *B.A., Columbia, 1976*
Ressa, Ames Daniel Port Washington, N.Y. *B.A., Brown, 1976*
Roman, Mary Jean Indianapolis, Ind. *B.A., Barnard, 1974*
Romano, Angela Antonia Brooklyn, N.Y. *B.S., Barnard, 1976*
Rosenfeld, Suzanne Syosset, N.Y. *B.A., Sarah Lawrence, 1975*
Rosenthal, Robert Bruce West Hartford, Conn. *B.S., Yale, 1976*
Rubenfeld, Marian Ruth Bronx, N.Y. *B.A., Barnard, 1976*
Rund, Deborah Gasner New York, N.Y. *B.A., City College of New York, 1970*
Saber, William Leland Freeport, N.Y. *B.A., Hampshire, 1976*

Sahar, David I. Rutherford, N.J. *B.A., Columbia, 1975*
Sakwa, Marc Peter Southfield, Mich. *B.A., Brown, 1976*
Schiz, Steven L. Valley Stream, N.Y. *B.A., California (Berkeley), 1976*
Schlam, Julia Frances Oradell, N.J. *B.S., Yale, 1976*
Schloss, Stephen Bertram Forest Hills, N.Y. *B.S., Yale, 1976*
Schulz, Danielle Eve Bronx, N.Y. *B.A., Smith, 1976*
Scott, Wendell O. Randolph, Mass. *B.S., Tufts, 1976*
Segal, Michael Myer Cambridge, Mass. *B.A., Harvard, 1976*
Serdarevic, Olivera Natalie Goshen, N.Y. *B.A., Barnard, 1976*
Sessler, Daniel Ira Berkeley, Calif. *California (Berkeley)*
Shapiro, Peter Andrew Chicago, Ill. *B.A., Princeton, 1976*
Sharanevych, Irene Sophia Irvington, N.J. *B.A., Rutgers, 1976*
Softness, Barney Glen Cove, N.Y. *B.A., Amherst, 1976*
Starker, Paul Matthew Nyack N.Y. *B.S., Harvard, 1976*
Steinberg, Robin Faith Long Beach, N.Y. *B.A., Smith 1976*
Sullivan, Mary Anna Lowell, Mass. *B.A., Dartmouth, 1976*
Swiderski, Deborah M. Syracuse, N.Y. *B.A., Barnard, 1971*
Talbot, Paul Anthony Queens, N.Y. *B.A., Columbia, 1975*
Teichman, Sam Leopold Rego Park, N.Y. *B.A., Columbia, 1976*
Thea, Donald Mark Tiburon, Calif. *B.S., Antioch, 1976*
Thomas, Natalia Elena Brooklyn, N.Y. *B.A., Radcliffe, 1976*
Ultmann, Monica Chicago, Ill. *B.A., Oberlin, 1975*
Waltner, Nancy Madeleine New York, N.Y. *B.A., Brown, 1976*
Wescoe, Sibyl Douglas, Kan. *B.A., Kansas, 1975*
West, Sally Agnes New York, N.Y. *B.S., Yale, 1973*
Wiznia, Andrew Alan Little Neck, N.Y. *B.A., Brandeis, 1976*
Yellin, Tova Gail Aurora, Ill. *B.A., Barnard, 1976*
Zeidel, Mark Lawrence Waitsfield, Vt. *B.S., M.S., Yale, 1976*
Zwas, Felice Rosel Brooklyn, N.Y. *B.A., Barnard, 1976*

Student Roster: Class of 1981

Adams, Roberta Harris Bronxville, N.Y. *B.S., Antioch, 1977*
Aiken, Brenda Brooklyn, N.Y. *B.A., Barnard, 1977*
Aldea, Gabriel-Sorin New York, N.Y. *B.A., Columbia, 1977*
Altshuler, Steven Lane Englewood, N.J. *B.A., Rochester, 1977*
Amador, Jorge Luis Bronx, N.Y. *B.A., Princeton, 1975*
Apfelbaum, Mark New York, N.Y. *B.A., Yeshiva, 1977*
Appleton, Abraham T. Englewood, N.J. *B.A., Yeshiva, 1976*
Aranow, Robert Bittman Hastings-on-Hudson, N.Y. *B.A., Harvard, 1977*
Auletta, Maria Jackson Heights, N.Y. *B.S., St. Francis, 1977*
Ausubel, Kalman Brooklyn, N.Y. *B.A., Yeshiva, 1977*
Bauman, Phillip Allen Larchmont, N.Y. *B.A., Harvard, 1976*
Beane, Susan Jo Bronx, N.Y. *B.A., Princeton, 1977*
Beitz, Julie Germaine Jackson Heights, N.Y. *B.A., Barnard, 1977*
Bender, Alison Ann Norristown, Pa. *B.A., Pennsylvania, 1977*
Blackwood, Roland Alexander New Rochelle, N.Y. *B.A., Columbia, 1976*
Booth, Richard Linn Cambridge, Ohio *B.A., Princeton, 1977*
Broom, Michael Joseph Sudbury, Mass. *B.A., Dartmouth, 1977*
Butler, Annette Louise Laurelton, N.Y. *B.S., Queens, 1977*
Byrne, Jeffrey Michael Sherborn, Mass. *B.S., Massachusetts, 1977*
Cagliostro, Stephen Bronx, N.Y. *B.A., Columbia, 1977*
Capaldo, Maria Elena New York, N.Y. *B.S., Hunter, 1970*
Carson, JoAnn Monroe, N.Y. *B.S., Yale, 1977*
Castiglione, Charles L. Hamden, Conn. *B.A., Yale, 1977*
Chandra, Elizabeth Stuart New York, N.Y. *B.A., Goucher, 1972*

Clinton, Henry Louis New York, N.Y. *B.A., Columbia, 1977*
Cohen, Paul Jay Bronx, N.Y. *B.A., Columbia, 1977*
Cohen, Ron New York, N.Y. *B.A., Princeton, 1977*
Collymore, Victor Alvin Bronx, N.Y. *B.A., Columbia, 1977*
Colon-Linares, Juan Ponce, Puerto Rico *Iowa*
Cotto, Sonia Brooklyn, N.Y. *B.A., Barnard, 1977*
Cutillo, Robert Paul Montclair, N.J. *B.S., Georgetown, 1977*
Daaboul, Jorge Juan Aguadilla, Puerto Rico *B.S., Yale, 1977*
Degreef, Gustav Lido Beach, N.Y. *B.A., Hofstra, 1976*
Deluty, Sheldon Howard Bronx, N.Y. *B.A., Columbia, 1977*
Devinsky, Orrin South Orange, N.J. *B.S., Yale, 1977*
Diao, Edward Flushing, N.Y. *B.A., Harvard, 1977*
Drucker, Elizabeth Anne San Mateo, Calif. *B.A., Princeton, 1977*
Ehrlich, Carol Margaret New York, N.Y. *B.A., Barnard, 1977*
Elliott, Deirdre Davina New York, N.Y. *B.S., Columbia, 1977*
Ellis, John Edward Jamaica, N.Y. *B.A., Harvard, 1977*
Feinberg, Richard Ira Woodmre, N.Y. *B.A., Trinity, 1977*
Feit, David Louis Brooklyn, N.Y. *B.A., Brandeis, 1977*
Feld, Randy Jay Massapequa Park, N.Y. *B.A., Cornell, 1977*
Flatow, Evan Lloyd New York, N.Y. *B.A., Princeton, 1977*
Freedman, Susan Dee Palo Alto, Calif. *B.A., Yale, 1975*
Freyberg, Christopher Wm. Pleasantville, N.Y. *B.S., Wisconsin, 1977*
Garrett, Jeffrey S. Forest Hills, N.Y. *B.A., Queens, 1977*
Gendler, Ellen Caryn Bellmore, N.Y. *B.A., Wesleyan, 1977*
Gertler, Jonathan Paul New York, N.Y. *B.A., Wesleyan, 1977*
Glantz, Sanford David Rosedale, N.Y. *B.S., SUNY (Stony Brook), 1977*
Goldberg, David Michael Stamford, Conn. *B.A., Yale, 1974*
Goldstein, Nannette Buffalo, N.Y. *B.A., SUNY (Stony Brook), 1973*
Golub, Robert Matthew Newburgh, N.Y. *B.A., Princeton, 1977*
Grossi, Eugene Andrew New York, N.Y. *B.A., Columbia, 1977*
Grunberg, Eva Lillian Flushing, N.Y. *B.A., Queens, 1977*
Hayes, Dewleen Gay Atherton, Calif. *B.A., Stanford, 1968*
Hresko, Michael Timothy Flint, Mich. *B.A., Harvard, 1976*
Kaplan, Lisa Anne Riverdale, N.Y. *B.A., Hunter, 1977*
Katzman, Michael Brooklyn, N.Y. *B.A., Columbia, 1977*
Kellman, Howard David Monongahela, Pa. *B.A., Stanford, 1974*
Kirby, Mathis Ann Forest Hills, N.Y. *B.A., Mount Holyoke, 1977*
Kleiman, Neal Stephen Staten Island, N.Y. *B.A., Princeton, 1977*
Klevan, Thomas Oyster Bay, N.Y. *B.A., Yale, 1977*
Kutscher, Martin Lyle Scarsdale, N.Y. *B.A., Columbia, 1977*
Kwon, Peter Heejoon, Jr. Los Angeles, Calif. *B.S., Massachusetts Institute of Technology, 1977*
Landaw, Irene Sarah Staten Island, N.Y. *B.A., SUNY (Purchase), 1976*
Landy, Harold Stephen New York, N.Y. *B.A., Harvard, 1972*
Le, Xuan Ha Thi Clarence, N.Y. *B.S., SUNY (Buffalo), 1977*
Lee, Timothy Leslie Sacramento, Calif. *B.A., Johns Hopkins, 1977*
Lehmann, Harold Philip New York, N.Y. *B.A., Columbia, 1977*
Lent, Kenneth David Kenmore, N.Y. *Sc.B., Brown, 1977*
Levin, Marc Stephen New Rochelle, N.Y. *B.S., Massachusetts Institute of Technology, 1977*
Levine, Alice Carla New York, N.Y. *B.A., SUNY (Albany), 1973*
Lipman, Steve Paul Huntington, N.Y. *B.A., Amherst, 1977*
Louard, Rita Jean Woodmere, N.Y. *B.A , Bryn Mawr, 1976*
Lowy, Israel Forest Hills, N.Y. *B.A., Princeton, 1977*
Lubka, Rhonda Hartford, Conn. *B.A., Barnard, 1977*
Ludwig, Robert Lewis Merrick, N.Y. *B.A., Cornell, 1977*
Mackey, Steven Lee South Columbus, Ohio *B.A., Columbia, 1976*

Marshall, Mitchell H. New York, N.Y. *B.A., Brandeis, 1974*
Maun, Steve Joseph Grosse Pointe, Mich. *B.A., Princeton, 1973*
Miro, Claudio Lazaro West Orange, N.J. *B.A., Princeton, 1977*
Moss, Barbara Ann Bronx, N.Y. *B.A., Barnard, 1967*
Moy, Larry Bronx, N.Y. *B.S., City College of New York, 1977*
Muraszko, Karin Marie New Providence, N.J. *B.S., Yale, 1977*
Murphy, Stephen Gerard North Attleboro, Mass. *B.S., Columbia, 1977*
Muschel, Michael J. Monsey, N.Y. *B.A., Yeshiva, 1977*
Nercessian, Ohannes A. Bronx, N.Y. *B.S., Lehman, 1977*
Nerenstone, Stacy Ruth Iowa City, Iowa *B.A., Brown, 1977*
Oppedisano, Carlyn Ann Roslyn Heights, N.Y. *B.A., Adelphi, 1977*
Palazzolo, Michael John New York, N.Y. *B.A., Columbia, 1976*
Park, William II Holyoke, Mass. *B.A., Columbia, 1977*
Patsos, Theodore John Canton, Mass. *B.A., Brown, 1977*
Pellicone, John Thomas Clinton, Conn. *B.A., Dartmouth, 1977*
Peress, Richard Eliot Jamaica, N.Y. *B.A., New York University, 1977*
Petchler, Janet Caroline Hamden, Conn. *B.A., Vassar, 1976*
Raby, Khether Emile Great Neck, N.Y. *B.S., Muhlenberg, 1977*
Regan, Raymond Francis Edgewater, N.J. *B.A., Rutgers, 1977*
Richmond, Kenneth Herbert Providence, R.I. *B.A., Brown, 1971*
Rifkin, Terry Paul Yonkers, N.Y. *B.A., Yeshiva, 1977*
Rivera, Angela New York, N.Y. *B.S., City College of New York, 1977*
Roberts, James Michael Scarsdale, N.Y. *B.A., Amherst, 1977*
Rogers, David Michael East Rockaway, N.Y. *B.A., Harvard, 1977*
Ross, Richard Steven Long Island City, N.Y. *B.A., Columbia, 1977*
Rozmaryn, Leo Martin Forest Hills, N.Y. *B.A., Queens, 1977*
Rudolph, Michael Alan Beverly Hills, Calif. *B.S., Stanford, 1977*
Sax, Frederic Lee Rosedale, N.Y. *B.S., Yale, 1977*
Scantlebury, Velma Patricia Brooklyn, N.Y. *B.S., Long Island, 1977*
Seely, Ellen Wells New York, N.Y. *B.A., Brown, 1977*
Shah, Dipti V. Fresh Meadows, N.Y. *B.A., Barnard, 1977*
Shear, Michael Peter Yonkers, N.Y. *B.A., SUNY (Purchase), 1977*
Shookster, Linda Anne Rego Park, N.Y. *B.A., Princeton, 1977*
Siegel, Robert David Jersey City, N.J. *B.A., Lafayette, 1977*
Sisti, Michael Brian Tenafly, N.J. *B.S.E., Cooper Union, 1977*
Small, Peter Alan Easton, Conn. *B.A., Tufts, 1977*
Smithy, William Brian Brookline, Mass. *B.A., Columbia, 1977*
Sobelson, Gary Alan North Bellmore, N.Y. *B.A., Dartmouth, 1977*
Speert, Peter Klee Brookline, Mass. *B.A., Williams, 1966*
Stein, Neil Brooklyn, N.Y. *B.A., Columbia, 1977*
Stern, Fredric A. Rockville Centre, N.Y. *B.A., B.S., Tufts, 1977*
Stoler, Joan Marilyn Brookline, Mass. *B.S., Brandeis, 1977*
Stone, Gary Carl Riverdale, N.Y. *B.A., Harvard, 1977*
Strongin, Jonathan David New York, N.Y. *B.A., Columbia, 1973*
Teitelbaum, Joanne New York, N.Y. *B.A., Connecticut, 1968*
Valdes, Martin Hialeah, Fla. *B.A., Miami, 1977*
Vaughan, Luke Michael Plainview, N.Y. *B.A., Columbia, 1976*
Veenema, Kenneth Roy Glenrock, N.J. *B.S., Cornell, 1977*
Voutsas, Andrea K. Bayside, N.Y. *B.A., Mount Holyoke, 1977*
Wagman, Robert David Ontario, Canada *B.A., Harvard, 1977*
Warren, Susan Enid New York, N.Y. *B.A., Yale, 1973*
Wasko, Margery Lynn Bronxville, N.Y. *B.A., Mount Holyoke, 1977*
Weidenbaum, Mark Waterford, Conn. *B.S., Connecticut, 1977*
Weinstein, Beth New York, N.Y. *B.A., Wesleyan, 1974*
Weinstock, Martin Arthur Bayside, N.Y. *B.A., Williams, 1977*
Weiss, Michael Jay Riverdale, N.Y. *B.Sc., Bar-Ilan, 1972*
Williams, John Vincent Brooklyn, N.Y. *B.S., City College of New York, 1977*

Wilson, Scott Numo New York, N.Y. *B.A., Princeton, 1977*
Wiseman, Gloria Diana New York, N.Y. *B.S., City College of New York, 1977*
Wood, Charles Macdonald Tenafly, N.J. *B.S., Denison, 1976*
Wright, Rene Vincent New York, N.Y. *B.A., Baruch, 1977*
Yannopoulos, Aristomenis D. Garden City, N.Y. *B.A., Harvard, 1977*
Yepes, Martha Cecilia New York, N.Y. *B.A., Barnard, 1977*
Young, Grace May-En Fairlawn, N.J. *B.A., Radcliffe, 1977*
Zahl, Kenneth J. Bronx, N.Y. *B.A., New York University, 1977*
Zinberg, Joel Michael New York, N.Y. *B.A., Swarthmore, 1977*
Zinberg, Jonathan Brooklyn, N.Y. *B.S., Brooklyn, 1977*
Zola, Benjamin Elia West Hartford, Conn. *B.A., B.S., Harvard, 1977*
Zollo, Kenneth Allen Farmingdale, N.Y. *B.S., SUNY (Stony Brook), 1977*

Student Roster: Class of 1982

Abrams, Elaine Janine Brooklyn, N.Y. *B.S., Princeton, 1978*
Absatz, Michael Glenn Plainview, N.Y. *B.E.S., Johns Hopkins, 1978*
Adler, Frederick William New York, N.Y. *B.S., Columbia, 1978*
Aldoroty, Robert Arthur Bayside N.Y. *B.A., Pennsylvania, 1976; M.A., Columbia, 1978*
Almquist, Robert Earl Bergen, N.Y. *B.S., Yale, 1978*
Amchin, Jess David Farmingdale, N.Y. *B.A., Cornell, 1978*
Andrew, Susan Louise Easthampton, Mass. *Sc.B., Brown, 1976*
Aranoff, Jonathan Neil Brooklyn, N.Y. *B.A., Columbia, 1978*
Beekman, Karen Press Brooklyn, N.Y. *B.A., Barnard, 1978*
Bellin, Eran Yitzchak Brooklyn, N.Y. *B.A., Harvard, 1978*
Bernstein, Guy Thomas Short Hills, N.J. *B.A., Brown, 1978*
Bezier, Jeffrey Lee Peshtigo, Wis. *B.A., Princeton, 1978*
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Blackwell, Thomas Keith Greenville, S.C. *B.S., Duke, 1978*
Boruchoff, Susan Elise Newton Centre, Mass. *B.A., Radcliffe, 1977*
Brauser, Steven Donald Woodbury, N.Y. *B.A., Harvard, 1978*
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Buchness, Mary Ruth Catonsville, Md. *B.A., Harvard, 1978*
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Derby, James Alan Schuylerville, N.Y. *B.S., SUNY (Albany), 1978*
Dermody, Terence Shawn Ithaca, N.Y. *B.S., Cornell, 1978*
Devlin, Michael James Bardonia, N.Y. *B.A., Princeton, 1978*
Downey, Susan E. New York, N.Y. *B.A., Smith, 1978*
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Easton, Jonathan New York, N.Y. *B.A., Columbia, 1978*
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Fabiano, Fredric Boston, Mass. *B.S., Boston, 1978*
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Fletcher, Christopher Wallace Wellesley, Mass. *B.A., Wesleyan, 1978*
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Frank, David Lawrence Meadowbrook, Pa. *B.A., Williams, 1978*
Gelbfish, Gary Alexander Brooklyn, N.Y. *B.S., Brooklyn, 1978*
Gilchrist, Ian Charles Chappaqua, N.Y. *B.A., Dartmouth, 1978*
Gomez, William New York, N.Y. *B.S., Polytechnic Institute of Brooklyn, N.Y., 1976*
Grant, Gail Patrice Charleston, S.C. *B.A., Yale, 1978*
Greenberg, Steven Marc Flushing, N.Y. *B.A., Harvard, 1978*
Gresalfi, Thomas John Lake Grove, N.Y. *B.S., SUNY (Stony Brook), 1978*
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Hart, Craig Parsippany, N.J. *B.A., Pennsylvania, 1973*
Honig, Peter K. Bellerose, N.Y. *B.A., Columbia, 1978*
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Jackness, Emily New York, N.Y. *B.A., Barnard, 1978*
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Margolis, Steven Fred Rego Park, N.Y. *B.A., New York University, 1974*
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Nussbaum, Monte Jay Flushing, N.Y. *B.S., Columbia, 1978*
Oesterling, Joseph Edwin Greensburg, Ind. *B.A., Columbia, 1978*
Olson, Stephen Eric Cooperstown, N.Y. *B.A., Hamilton, 1978*

Paul, Edward Mark Hicksville, N.Y. *B.A., Harvard, 1978*
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Pfeffer, Deborah Lynn New York, N.Y. *B.A., Barnard, 1978*
Philips, Mark Reid Scarsdale, N.Y. *B.A., Harvard, 1978*
Plotycia, Steven Michael Eggertsville, N.Y. *B.S., State University of New York (Buffalo), 1978*
Porder, Joseph Bernard New York, N.Y. *B.A., Bennington, 1978*
Price, Helen L. Summit, N.J. *B.S., Yale, 1978*
Quarmby, Robert Altamont, N.Y. *B.S., SUNY (Stony Brook), 1974; M.S., Rensselaer Polytechnic Institute, 1978*
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Robbins, Peter Howard Fairlawn, N.J. *B.A., Hamilton, 1978*
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Rosenblatt, Marc A. New York, N.Y. *B.A., Harvard, 1978*
Rosenzweig, Seth Edward Freeport, N.Y. *B.S., Yale, 1978*
Rottman, Jeffrey Nathan Berkeley, Calif. *B.A., Princeton, 1976*
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Schulder, Michael Brooklyn, N.Y. *B.A., Columbia, 1978*
Sealfon, Stuart C. Neponsit, N.Y. *B.A., Princeton, 1978*
Sehgal, Evan David Chevy Chase, Md. *B.A., Harvard, 1978*
Shaffer, David Great Neck, N.Y. *B.A., Yale, 1978*
Shaffer, Nathan New York, N.Y. *B.A., Yale, 1975*
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Sheinbaum, Roy Jonathan Woodmere, N.Y. *B.Sc., McGill, 1978*
Simkowitz, Philip New York, N.Y. *B.S., Beloit, 1975*
Sklar, Jeffrey Alan Laurelton, N.Y. *B.S., SUNY (Stony Brook), 1978*
Skowron, Gail East Northport, N.Y. *B.S., Muhlenberg, 1978*
Smith, Andre Leo New York, N.Y. *B.A., Williams, 1978*
Smith, Mary Camden, N.Y. *B.S., Houghton, 1978*
Stevenson, Ellen Marie New York, N.Y. *B.A., Barnard, 1977*
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Sultan, Mark Brooklyn, N.Y. *B.A., Brandeis, 1978*
Susser, Ezra Saul Hastings-on-Hudson, N.Y. *B.A., Columbia, 1974*
Tong, Dominic Jun Fai Honolulu, Hawaii *B.S., Hawaii (Manoa), 1978*
Usatine, Richard Philip Nanuet, N.Y. *B.A., Williams, 1978*
Veenema, Kenneth Roy Glenrock, N.J. *B.S., Cornell, 1977*
Vita, Joseph Andrew Katonah, N.Y. *B.S., Yale, 1978*
Wall, Janet E. Philadelphia, Pa. *B.A., Pennsylvania, 1978*
Wasserman, Hal Stuart Springfield, N.J. *B.A., Johns Hopkins, 1978*
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Whelan, Richard Lawrence Franklin Square, N.Y. *B.S., Fordham, 1978*
Wolff, David Marc New York, N.Y. *B.S., SUNY (Albany), 1977*
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Yorke, Eric Robert Brooklyn, N.Y. *B.S., SUNY (Stony Brook), 1978*
Zeralsky, Sandra Joan Pearl River, N.Y. *B.A., SUNY (Stony Brook), 1978*

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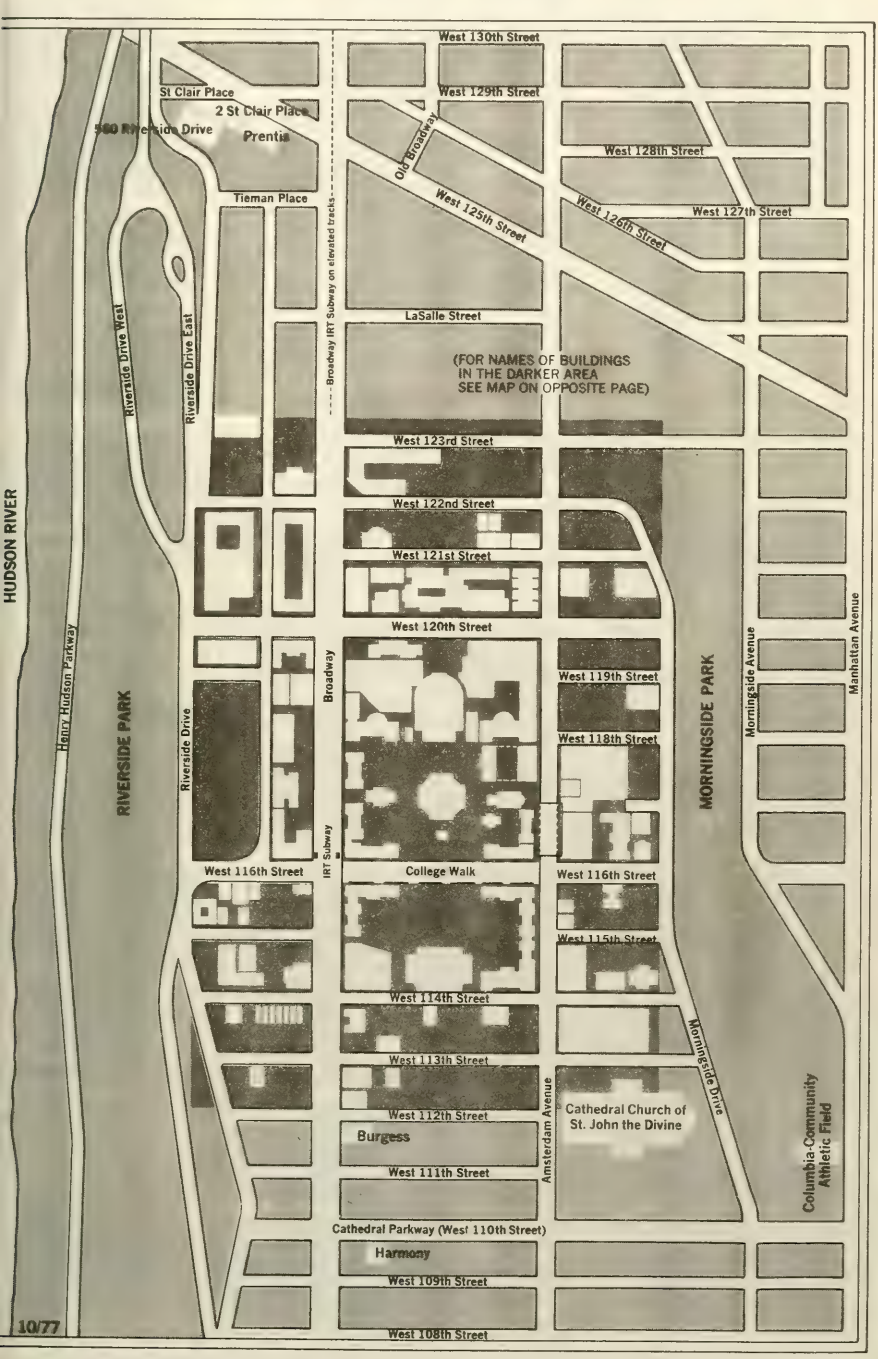

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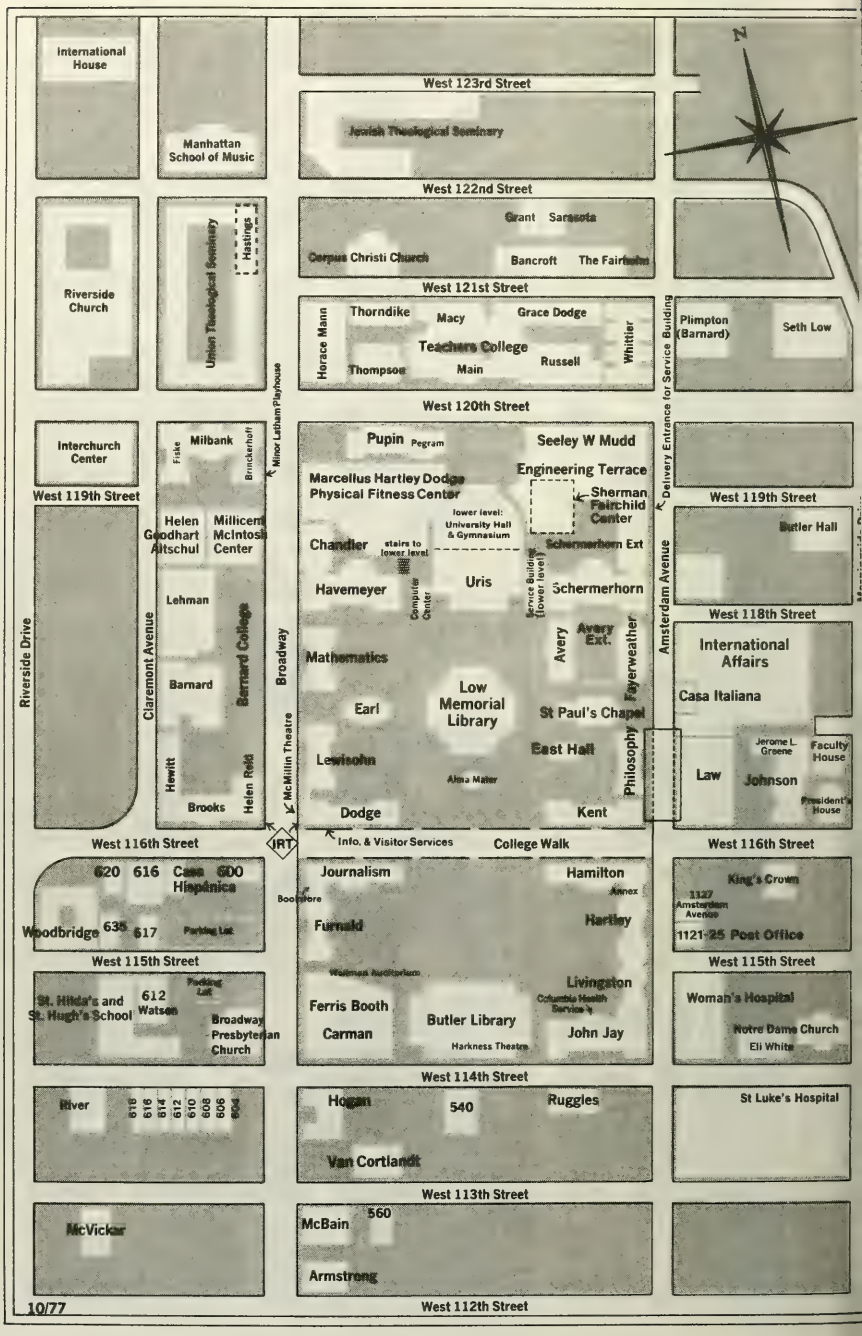

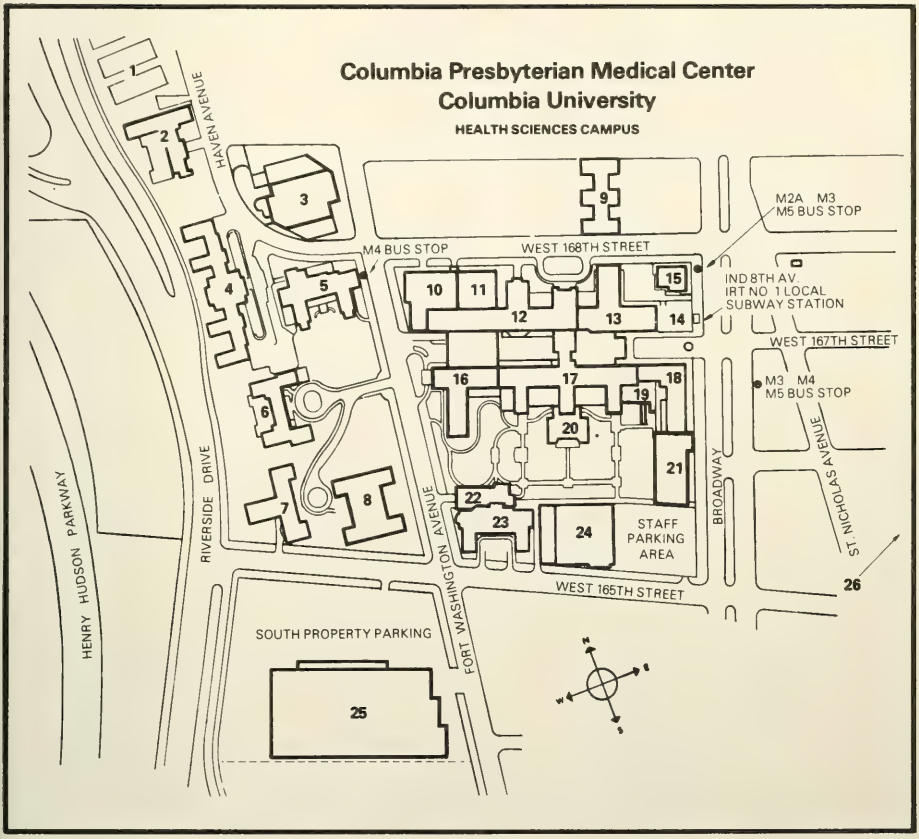

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1 Bard Haven Towers
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3 Cancer Center/Institute of Cancer Research
24 Central Service Building
12 College of Physicians and Surgeons
26 Center for Community Health Systems
13 School of Dental and Oral Surgery
9 Georgian Nurses Residence
22 Edward S. Harkness Eye Institute
23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
3 Julius and Armand Hammer Health Sciences Center
3 Institute of Human Nutrition
2/12 International Institute for the Study of Human Reproduction
6 Anna C. Maxwell Hall, School of Nursing Residence
5 The Neurological Institute of New York
6 School of Nursing
25 Parking facilities
17 Presbyterian Hospital
New York Orthopedic Hospital
Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
15 School of Public Health
19 Radiotherapy Center
13 Vanderbilt Clinic
14 Vanderbilt Clinic Addition

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